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DISTRIBUTION TESTS OF A 0.010-SCALE SPACE  
SHUTTLE ORBITER MODEL (61-0) IN THE NASA/ARC  
3.5-FOOT HYPERSONIC WIND TUNNEL (TEST OH38),  
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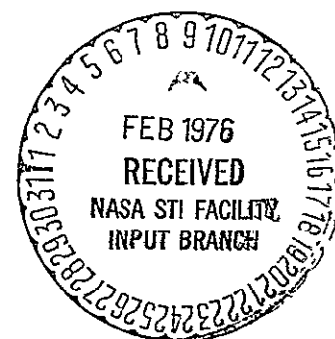
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER  
CORPORATION

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RESULTS OF PRESSURE DISTRIBUTION TESTS OF A  
0.010-SCALE SPACE SHUTTLE ORBITER MODEL (61- 0)  
IN THE NASA/ARC 3.5-FOOT  
HYPERSONIC WIND TUNNEL (TEST OH38)

by

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by

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for

Engineering Analysis Division  
Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 3.5-198  
NASA Series Number: OH38  
Model Number: 61-0  
Test Dates: 20 June through 19 July 1974  
Occupancy Hours: 320

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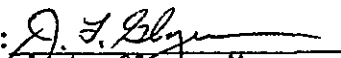
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IN THE NASA/ARC 3.5-FOOT  
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ABSTRACT

The results of hypersonic tests conducted on a 0.010-scale model of the Rockwell International Space Shuttle 140C Orbiter in the NASA-Ames Research Center 3.5-foot hypersonic wind tunnel are presented in this report.

The purpose of these tests was to obtain hypersonic pressure distributions at simulated entry conditions. Pressure data were obtained at Mach numbers of 7.4 and 10.4 and Reynolds numbers of 3.0 and 6.5 million per foot. These data are presented in both plotted and tabulated data form.



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## SCHEDULE OF COEFFICIENTS PLOTTED:

- |                         |                         |
|-------------------------|-------------------------|
| A) CP/CPS versus X/L    | E) CP/CPS versus X/CV   |
| B) CP/CPS versus X/C    | F) CP/CPS versus COLUMN |
| C) CP/CPS versus ROW NO | G) CP/CPS versus PHI    |
| D) CP/CPS versus POSN   |                         |

## INTRODUCTION

This report presents results of tests conducted on a 0.010-scale model of the Rockwell International Space Shuttle Orbiter in the NASA/Ames Research Center 3.5-foot hypersonic wind tunnel. These tests were conducted from 6/20/74 through 7/19/74 during a total of 320 test hours.

The purpose of these tests was to obtain hypersonic pressure distributions on the 140C Orbiter to be used in conjunction with aerodynamic heating data obtained from other tests.

Pressure distributions were obtained for Mach numbers of 7.4 and 10.4. At Mach 7.4 Reynolds nos. of  $3.0$  and  $6.5 \times 10^6/\text{ft.}$  were tested through an angle of attack sweep of  $15^\circ$  to  $50^\circ$  and at side slip angles of  $0^\circ$  and  $-1^\circ$  (nose right). Elevons, speed brake and bodyflap were deflected as follows:

elevons:  $0^\circ$ ,  $5^\circ$ ,  $10^\circ$ ,  $-7^\circ$ ,  $-40^\circ$

speed brake:  $0^\circ$ ,  $49^\circ$

bodyflap:  $0^\circ$ ,  $16.7^\circ$ ,  $22^\circ$ ,  $-12^\circ$

At Mach 10.4, a Reynolds no. of 1.7 was tested through the same angle of attack and side slip angles as the Mach 7.4 sequence. The control deflections tested at Mach 10.4 are as follows:

elevons:  $0^\circ$ ,  $5^\circ$

speed brake:  $0^\circ$ ,  $49^\circ$

bodyflap:  $0^\circ$ ,  $16.7^\circ$

Most runs were repeated due to scanivalve problems during the test. All data gathered during the test are included in the Appendix. The plotted data, however, were selected for the report by eliminating duplicated and bad data sets.

## NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
	BL	butt line, distance from orbiter centerline in the outboard direction, in.
$\mathcal{C}$		centerline
Column	COLUMN	windshield column number, see figure 2a and table IV
$C_{p_N}$	CP	local model pressure coefficient at Nth orifice
$C_{p_{STAG}}$	CPSTAG	stagnation pressure coefficient
$C_{p_n}/C_{p_{STAG}}$	CP/CPS	ratio of local model pressure coefficient to stagnation pressure coefficient at Nth orifice
L.E.		leading edge
$M_\infty$	MACH	freestream Mach number
$P_1$	P	freestream static pressure, psia
$P_n$		local model surface pressure, for orifice n, psia
	POSN	order relative to the leading edge for the wing L.E. clusters, see table IV
$q_1$	Q	freestream dynamic pressure, psf
Ray	RAY	windshield ray number, see figure 2a and table IV
	ROW NO	row number for OMS pod pressure taps see figure 2a
$R_n/L$	RN/L	unit Reynolds number, per foot
$X_0$	XO	longitudinal Orbiter station, full scale distance from Orbiter reference point or 238 in + F. S. distance from Orbiter nose

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$\frac{X}{L}$	X/L	nondimensional distance from nose of Orbiter, fraction of Orbiter reference length
$\frac{X}{c}$	X/C	nondimensional distance from leading edge of wing, fraction of chord length
	X/CV	nondimensional distance from leading edge of vertical tail, fraction of local vertical tail chord
	X/LOM	longitudinal location on OMS pod, fraction of OMS pod length
$Y_o$	YO	Orbiter spanwise station in.
$2Y/b$	2Y/B	nondimensional spanwise location on wing, fraction of wing semispan
$Z_o$	ZO	Orbiter vertical station, in.
$Z/b_v$	Z/BV	nondimensional spanwise location on vertical tail measured from $Z_o = 500$ , fraction of vertical tail span
$\alpha$	ALPHA	angle of attack, deg.
$\beta$	BETA	angle of sideslip, deg.
$\phi$	PHI	Orbiter cross-section angles measured clockwise looking forward $0^\circ = \text{bottom } Q_L$ , deg.
$\delta_e$	ELEV-L,R	elevon deflection angle left or right, deg.
$\delta_{BF}$	BDFLAP	bodyflap deflection angle, deg.
$\delta_{SB}$	SPDBRK	speedbrake deflection angle, deg.

## NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
	BREF	wing span or reference span;      ft
	LREF	reference length or wing mean aerodynamic chord; "    ft
	SREF	wing area or reference area;      ft <sup>2</sup>
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis



## CONFIGURATIONS INVESTIGATED

The model used for testing was a 0.010-scale model of the Rockwell International Space Shuttle Orbiter. The model was built to Rockwell Lines VL70-000140C.

The model was fabricated with the following control surface deflection possibilities:

elevons: 0, 5, 10, -7, -40

speedbrake: 0, 49

bodyflap: 0, 16.7, 22, -12

The model was sting mounted through its rear. Model pressure tubes were routed internally.

## INSTRUMENTATION

The model was instrumented with 268 pressure orifices distributed over the model as shown in table IV and figure 2.

Model local pressures were recorded via one scanivalve unit consisting of six barrels. Each barrel recorded approximately 47 pressures.

The scanivalve unit described above was mounted above the sting in a steel box. Cooling of the box was accomplished by film cooling, i.e., injecting water into the boundary layer on the box.

Thermocouples mounted on the inside of the box wall and near the scanivalve unit indicated that the water film cooling provided a 50-60°F environment for the scanivalve during testing (typical test run time averaged 3 min.).

Two initial runs were made to determine pressure lag times and optimum scanivalve stepping rate. From these two runs, the lag time was determined to be 3-4 seconds and the optimum step rate was 0.7 sec. per port,

## TEST FACILITY DESCRIPTION

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft<sup>3</sup> vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12-feet in diameter and 40-feet in length, arranged transversally to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +20 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37-inches from tunnel centerline) until the tunnel test conditions are established after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to channels of tunnel parameters.

## DATA REDUCTION

Pressure transducer outputs were reduced to pressures using cell constants from pre-run calibrations

Local pressure coefficients were computed using:

$$C_{P_n} = \frac{P_n - P_1}{q_1}$$

The stagnation pressure coefficient was calculated using:

$$C_{P_{STAG}} = \frac{[(1.2M_\infty^2)^{3.5} \left( \frac{6.0}{7.0M_\infty^2 - 1} \right)^{2.5}] - 1}{0.7M_\infty^2}$$

This report contains plotted and tabulated data. Local pressure coefficient divided by stagnation pressure coefficient ( $C_P/C_{PS}$ ) is the plotted variable. It is plotted versus one of the geometric dimensional variables. Only plots of selected data are presented. Each figure contains the selected data for a given component. For each individual component 9 datasets are plotted. The matrix below gives the test conditions and control deflections illustrated by these datasets.

Matrix of Plotted Datasets for Each Component

5th & 6th Character	Description	$\beta$	$\delta_e$	$\delta_{SB}$	$\delta_{BF}$	RN/L	MACH
01 or 35	$\delta_{SB}$ & $\delta_{BF}$ Effect	0	0	41.5	15.7	3.0	7.4
03	Basic	0	0	0	0	3.0	7.4
04	RN/L Effect	0	0	0	0	6.5	7.4
05	$\delta_e$ Effect	0	+5	0	0	3.0	7.4
07	$\delta_{BF}$ Effect	0	+5	0	15.7	3.0	7.4

# DATA REDUCTION (Continued)

5th & 6th Character	Description	$\beta$	$\delta_e$	$\delta_{SB}$	$\delta_{BF}$	RN/L	MACH
11	$\delta_e$ Effect	0	+10	0	0	3.0	7.4
14 or 32	$\delta_e$ Effect	0	-40	0	0	3.0	7.4
16	$\beta$ Effect	-1	0	0	0	3.0	7.4
20	MACH Effect	0	0	0	0	3.0	10.4

The appendix consists of a listing of the local pressure coefficient data (CP). All data for a given component are grouped together. Data for each component follows the same sequence as the Data Set/Run Number Collation Summary, Table II (alphabetic on the first dataset identifier character, then numeric on the 5th and 6th character). The plotted and tabulated data are arranged in the following manner:

# DATA REDUCTION (Concluded)

VOLUME  
NO.

## CONTENTS

- 1 Plots of CP/CPS versus geometry.  
See the index of data figures for  
paganation.
- 2 Tabular listing of source data  
CP ~ local pressure coefficient

	Component	Fourth Character*	Page
Orbiter ↓	bottom centerline	A	1
	top centerline	B	141
	OMS pods	C	261
	wing clusters	D	325
	windshield	E	389
	fuselage tangency line	F	445
	fuselage nose	G	507
	wing upper surface (RT)	H	630
3 Orbiter ↓	vertical tail	I	739
	fuselage cross section	J	801
	aft sidewall	K	1031
	wing lower surface (LT)	L	1087
	attach points	M	1253
	incidental orifices	N	1317

\* The Fourth Character in each dataset identifier (i.e., REZLXX,L for wing lower surface) represents the individual component.

TABLE 1.

[illegible]

TEST: CH38 ARC 3.5-198

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 10-14-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		$\alpha$	$\beta$	$\alpha_c$	$\alpha_{SB}$	$\alpha_{BF}$	R/N/L		15	20	25	30	35	40	45	50		
RE2001	140C ORB		0	0	49	16.7	3.0	7.4		802-1		801-1	802-2	801-2				
2					49	16.7	6.5			803-1		804-1		805-1				
3					0	0	3.0			811-1	811-2	812-1	812-2	812-3				
4						0	6.5			810-1	809-1	808-1	807-1	806-1				
5				5		0	3.0			813-3		813-2		813-1				
6						0	6.5			814-1		815-1		816-1				
7						16.7	3.0			822-1		822-2		822-3				
8						16.7	6.5			821-1		820-1		817-1				
9						22.0	3.0			824-3	824-2	823-3	823-2	823-1				
10				5		22.0	6.5			829-1	828-1	827-1	826-1	825-1				
11				10		0	3.0			830-5		830-4		830-1				
12				-7		-12	3.0			831-3	831-2	831-1	832-2	832-1				
13				-7		-12	6.5			836-2	836-1	835-2	835-1	834-1				
14				-10		0	3.0			839-3		839-2		839-1				
15				0	-10	0	6.5			837-2		837-1		838-1				
16				-1	0	0	3.0			602-3	62-2	62-1	61-2	61-1				
17				-1	5	0	3.0	7.4		60-3		60-2		60-1				
RE2018	140C ORB		-1	0	0	0	1.7	10.4		866-2	866-1	864-3	864-2	864-1	865-2	865-3		

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CA													
COEFFICIENTS													
ALPHA MACH													
IDVAR (1) IDVAR (2) NDV													
SCHEDULES													

EACH NUMERICAL DATA SET CYCLES  
THRU AN ALPHABETICAL DATA SET (A-N)  
CORRESPONDING TO SECTION.

"800" RUNS ARE THE SECOND  
DATA REDUCTION



TEST: 0438 ARC 3.5-198

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 10-14-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
		$\alpha$	$\beta$	$\theta_e$	$\theta_{SB}$	$\theta_{BF}$	RWL		15	20	25	30	35	40	45	50				
RE2019	140 C ORB		0	5	49	16.7	1.7	10.4			874-2	874-1	872-2	872-1	873-2	873-1				
20				0	0	0	1.7	10.4			869-2	869-1	868-2	868-1	867-2	867-1				
30				5	0	16.7	3.0	7.4			84-3	84-3		84-2	51-2	51-1	84-1			
31				5	0	16.7	6.5				52-2		52-1							
32				-40	0	0	3.0			89-3	54-3	79-3	54-2	54-1	79-1	79-2	89-1			
33				-40	0	0	6.5				55-2	90-2		90-1	55-1					
34				-7	0	-12.	3.0			88-3	56-3	80-2	56-2	80-1	56-1	80-3	88-1			
35				0	49	16.7	3.0				59-2	58-1	57-3	57-2	57-1	57-1				
36				5	0	22.	3.0			76-3		75-1	85-2			76-2	85-1			
37				5	0	22.	6.5			77-2	77-1									
RE2038	140C ORB			7	0	-12.	6.5				81-2	81-1								
YE2003	REPEAT of D/S 3			0	0	0	3.0				842-3	842-2	842-1	841-3	841-2	841-1	840-9			
4	D/S 4			0			6.5				846-1	845-2	845-1	844-2	843-2	844-1				
5	D/S 5			5			3.0				50-3		50-2	83-3	50-1	83-2	83-1			
6	D/S 6			5			6.5				82-2	91-2	82-1	91-1						
XE2011	D/S 11			10			3.0			86-2	53-3	86-1	53-2	87-3	53-1	87-2	87-1			
YE2003	D/S XE2003			0			3.0				78-3		49-3	78-2	49-1	78-1				
YE2004	REPEAT of D/S XE2004			0	0	0	6.5	7.4					48-3		48-2					

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CP ALPHA MACH

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

 $\alpha$  OR  $\beta$   
SCHEDULESX Repeat of R  
Y Repeat of X\*ALPHA VALUES IN DATA  $\approx 320$   
DATA PROVIDED TO VALUES  
INDICATED ON COLLATION SHEET.  
A RUN HAS NO DATA.

A-MSC-MAP

TABLE III (MODEL DIMENSIONAL DATA)

MODEL COMPONENT : BODY - R<sub>64</sub>

GENERAL DESCRIPTION The body is to the Baseline Definition Space Shuttle Vehicle Configuration 5 MCR 200 Rev 7 dated 10/17/74.

MODEL SCALE: 0.010

DRAWING NUMBER: VC70--0000002 MTV-70 Baseline IML

RFF: Length OML X = 232 - 1528 3

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length OML X <sub>0</sub> = 232-1528 3	1290.3	12.903
Length (TML X = 230 5 -1528 3)		
OML Max Width (X <sub>0</sub> = 1516.8013) In.	262.718	2.627
TML " " (X <sub>0</sub> = 1516.8013) In	260.718	2.607
OML Max Depth (X <sub>0</sub> 1463.316) In.	248.575	2.486
IML " " (X <sub>0</sub> 1463.316) In.	246.575	2.466
OMI Fineness Ratio	5.1365	5.1365
IML " "	5.1525	5.1525
Area - Ft <sup>2</sup>		
Max. Cross-Sectional @ X 1463.316	340.82	0.0341
Planform		
Wetted		
Base		

TABLE III (CONT'D)

MODEL COMPONENT : CANOPY - C<sub>14</sub>

GENERAL DESCRIPTION : The canopy is that part of the forward fuselage which covers the crew module. 1" thickness on the canopy.

Vehicle 5 configuration MCR 200 Rev. 7

MODEL SCALE: 0.010

DRAWING NUMBER : VI.70-0001400 VC70-0000002 MPV-70.

DIMENSIONS .	FULL SCALE	MODEL SCALE
Length ( $X_0$ 435.196 to 670.0)	<u>234.80</u>	<u>2.348</u>
Max Width (@ $X_0 = 594.0$ )	<u>195.58</u>	<u>1.956</u>
Max Depth	<u>          </u>	<u>          </u>
Fineness Ratio	<u>          </u>	<u>          </u>
Area	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>          </u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

## WINDSHIELD PANELS:

$$\begin{aligned}
 .7012 X_0 - .2552 Y_0 - 6656 Z_0 - 6.1789 &= 0 \\
 .5710 X_0 - .5641 Y_0 - .5965 Z_0 + 32.7354 &= 0 \\
 .2636 X_0 - .7564 Y_0 - .5965 Z_0 + 189.1094 &= 0
 \end{aligned}$$

TABLE III (CONT'D)

MODEL COMPONENT: ELEVON - E54

GENERAL DESCRIPTION: Elevon for configuration 5 hingeline at  $X_0 = 1387$   
Elevon split line  $Y_0 = 312.5$  6.0" gaps beveled edges, and centerbodies  
QMI used on W120 Ref MCR 200 Rev. 7 dated 10-17-74.

MODEL SCALE: 0.010

DRAWING NUMBER: VC70-000002A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area used for $C_{Hc}$ computation	<u>210.0</u>	<u>0.0210</u>
Area - $Ft^2$	<u>206.57</u>	<u>0.0207</u>
Span (equivalent) In.	<u>346.44</u>	<u>3.464</u>
Inb'd equivalent chord In.	<u>116.50</u>	<u>1.165</u>
Outb'd equivalent chord In.	<u>55.219</u>	<u>0.552</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2137</u>	<u>0.2137</u>
At Outb'd equiv. chord	<u>0.3999</u>	<u>0.3999</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(Product of area and $\bar{c}$ )		
Area Moment (Normal to hingeline) $Ft^3$	<u>1540.74</u>	<u>0.00154</u>
Mean Aerodynamic Chord In	<u>89.50</u>	<u>0.895</u>

TABLE III (CONT'D)

MODEL COMPONENT: BODY FLAP - F<sub>14</sub>GENERAL DESCRIPTION: Orbiter body flap Vehicle 5 configuration, MCR 200  
Rev. 7 "OML" to be used with B<sub>64</sub>. Hingeline X<sub>o</sub> 1532.0 Y<sub>o</sub> -1280.MODEL SCALE: 0.010DRAWING NUMBER: VC70-000002 and MDV-70

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Total Area - Ft <sup>2</sup>	<u>133.875</u>	<u>0.0134</u>
Span (equivalent) . In.	<u>238.000</u>	<u>2.380</u>
Inb'd equivalent chord In.	<u>81.00</u>	<u>0.810</u>
Outb'd equivalent chord In.	<u>81.00</u>	<u>0.810</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>          </u>	<u>          </u>
At Outb'd equiv. chord	<u>          </u>	<u>          </u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>0.00</u>	<u>0.00</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(MAC X TOTAL AREA) Ft <sup>3</sup>		
Area Moment (Normal to hinge line)	<u>903.656</u>	<u>0.0009</u>
Mean aerodynamic chord In.	<u>81.0</u>	<u>0.810</u>

TABLE III (CONT'D)

MODEL COMPONENT OMS PODS (OML) - M<sub>1a</sub>

GENERAL DESCRIPTION Vehicle 5 configuration, MCR 200, Rev. 7  
orbiter OMS pod - short pod

MODEL SCALE: 0.010

DRAWING NUMBER VC70-000002 VL70-008410 MDV-70

DIMENSIONS .	FULL SCALE	MODEL SCALE
Length ( $X_{01311}$ to $1511$ ), In	<u>200.00</u>	<u>2.000</u>
Max Width ( $X_{0305}$ , $X_{01511}$ ) In.	<u>135.75</u>	<u>1.358</u>
Max Depth ( $X_{0304}$ , $X_{01511}$ ) In	<u>74.50</u>	<u>0.745</u>
Fineness Ratio	<u>1.937</u>	<u>1.937</u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional @ $X_{p305}$	<u>59.169</u>	<u>0.0058</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III (CONT'D)

MODEL COMPONENT: RUDDER - R18

GENERAL DESCRIPTION: The rudder is a secondary movable airfoil at the trailing edge of the vertical fin that imparts yaw forces. This dimensional data was calculated from the OML master dimensions 7-19-74.

MODEL SCALE: 0.010DRAWING NUMBER: Vehicle 5 Conf MCR 200, Rev. 7.

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - $\text{Ft}^2$	<u>97.838</u>	<u>0.0098</u>
Span (equivalent) , In.	<u>198.614</u>	<u>1.986</u>
Inb'd equivalent chord, In.	<u>91.07</u>	<u>0.911</u>
Outb'd equivalent chord , In.	<u>50.80</u>	<u>0.508</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.833</u>	<u>34.833</u>
Tailing Edge	<u>26.249</u>	<u>26.249</u>
Hingeline	<u>34.833</u>	<u>34.833</u>
Area Moment <sup>Product of MAX y Area</sup> (Normal to hinge line) $\text{Ft}^3$	<u>593.88</u>	<u>0.00059</u>
Mean Aerodynamic Chord, In.	<u>72.840</u>	<u>0.728</u>

TABLE TII (CONT'D)

MODEL COMPONENT: VERTICAL - V<sub>23</sub>

GENERAL DESCRIPTION: The vertical tail is double wedge shaped and  
mounted dorsally on the aft fuselage. These data correspond to the  
vehicle 5 configuration, MCR 200, Rev. 7.

MODEL SCALE: 0.010DRAWING NUMBER: VC70-000002 Master Dimensions

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SC/LE</u>
TOTAL DATA		
Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.253</u>	<u>0.0413</u>
Span (Theo) - In.	<u>315.72</u>	<u>3.157</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>14.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>2.685</u>
Tip (Theo) WP	<u>108.47</u>	<u>1.085</u>
M/C	<u>199.81</u>	<u>1.998</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>14.635</u>
W.P. of .25 MAC	<u>635.52</u>	<u>6.355</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.00</u>	<u>0.020</u>
Void Area	<u>13.17</u>	<u>0.0013</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>



TABLE III (CONL'D)

MODEL COMPONENT: WING-W<sub>129</sub>

GENERAL DESCRIPTION: The wing is the primary lifting device and is mounted horizontally and is symmetric about the plane  $Y_0 = 0$ . A cuff fair the fuselage to the wing's leading edge @  $X_0 = 94.0$  to  $X_0 = 1084.0$

MODEL SCALE: 0.010TEST NO. MCR 200, Rev. 7 10'17'74 Baseline Conf. 5. DWG. NO. VC70-000002

DIMENSIONS:	FULL-SCALE	MODEL SCALE
<b>TOTAL DATA</b>		
Area (Theo.) $\text{Ft}^2$	2690.00	0.2690
Planform	936.68	9.367
Span (Theo) In.	2.265	2.265
Aspect Ratio	1.1773	1.177
Rate of Taper	0.200	0.200
Taper Ratio	3.500	3.500
Dihedral Angle, degrees	0.500	0.500
Incidence Angle, degrees	0.00	0.00
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	10.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.243	6.892
Tip, (Theo) B.P.	137.849	1.379
MAC	474.812	4.748
Fus. Sta. of .25 MAC	1136.834	11.368
W.P. of .25 MAC	290.857	2.909
B.L. of .25 MAC	182.132	1.821
<b>EXPOSED DATA</b>		
Area (Theo) $\text{Ft}^2$	1751.50	0.1752
Span, (Theo) In. BP108	720.68	7.207
Aspect Ratio	2.060	2.060
Taper Ratio	0.2452	0.2452
Chords		
Root BP108	562.090	5.621
Tip 1.00 $\frac{b}{2}$	137.849	1.379
MAC	392.826	3.928
Fus. Sta. of .25 MAC	1186.50	11.865
W.P. of .25 MAC	293.683	2.937
B.L. of .25 MAC	251.769	2.518
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2} =$	0.1136	0.1136
Tip $\frac{b}{2} =$	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff	145.4	0.0145
Planform Area $\text{Ft}^2$	500.00	5.00
Leading Edge Intersects Fus M. L. @ Sta	1084.0	10.840
Leading Edge Intersects Wing @ Sta		

TABLE IV  
PRESSURE ORIFICE LOCATIONS

Bottom $Q_L$			Top $Q_L$		
No.	$\frac{X}{L}$	$X_0$	No.	$\frac{X}{L}$	$X_0$
1	.000	235.000	26	.010	247.933
2	.005	241.467	27	.030	273.799
3	.010	247.933	28	.060	312.595
4	.020	260.866	29	.080	336.464
5	.030	273.799	30	.100	364.330
6.	.040	286.732	31	.130	403.129
7	.050	299.665	32	.160	441.928
8	.060	312.598	33	.170	454.861
9	.080	338.464	34	.180	467.794
10	.100	364.330	35	.190	480.727
11	.112	380.000	36	.200	493.660
12	.150	428.995	37	.250	558.325
13	.200	493.660	38	.300	622.990
14	.300	622.990	39	.500	881.650
15	.400	752.320	40	.600	1010.980
16	.500	881.650	41	.700	1140.310
17	.600	1010.980	42	.775	1237.307
18	.700	1140.310	43	.800	1269.640
19	.800	1269.640	44	.825	1301.973
20	.850	1334.305	WINDSHIELD		
21	.950	1463.635	No.	Column	Ray
22	.975	1495.968	45	3	1
23	1.004	1533.473	46	2	1
24	1.025	1560.633	47	1	1
25	1.050	1592.965	48	3	2
$X_0 = 235 + \frac{X}{L} (1293.3)$			49	2	2
			50	1	2
			51	3	3
			52	2	3
			53	1	3

TABLE IV. - PRESSURE ORIFICE LOCATIONS (Cont'd)  
CROSS SECTIONS (Pilot Left)

No.	$\phi$	$\frac{X}{L}$	$X_0$	No.	$\phi$	$\frac{X}{L}$	$X_0$
54	19.5	.01	247.933	80	26	.30	622.99
55	10	.03	273.799	81	41	↓	↓
56	16	↓	↓	82	47.5	↓	↓
57	22	↓	↓	83	53.5	↓	↓
58	26	↓	↓	84	66.5	↓	↓
59	33.5	↓	↓	85	71	↓	↓
60	42.5	.05	229.665	86	76.5	↓	↓
61	53	.08	338.464	87	82.5	↓	↓
62	20	.10	364.330	88	122	↓	↓
63	26.5	↓	↓	89	145	↓	↓
64	32	↓	↓	90	81	.35	687.65
65	37	↓	↓	91	90	↓	↓
66	42.5	↓	↓	92	100.5	↓	↓
67	59	↓	↓	93	111	↓	↓
68	90	↓	↓	94	26	.40	752.320
69	90	.16	441.928	95	96	↓	↓
70	20	.20	493.660	96	109	↓	↓
71	35.5	↓	↓	97	122.5	↓	↓
72	39.5	↓	↓	98	95	.50	881.650
73	43.5	↓	↓	99	17	.60	1010.98
74	47.5	↓	↓	100	32	↓	↓
75	51.0	↓	↓	101	45	↓	↓
76	90	↓	↓	102	52	↓	↓
77	55.5	.25	558.325	103	66	↓	↓
78	57	↓	↓	104	75	↓	↓
79	95.5	↓	↓	105	85	↓	↓
				106	96	↓	↓
				107	122	↓	↓
				108	23.5	.80	1269.64
				109	56.5	.829	1307.1
				110	72.0	↓	↓
				111	90.0	↓	↓
				112	24	.9	1398.97
				113	24.5	.95	1463.635

TABLE IV. - PRESSURE ORIFICE LOCATIONS (Cont'd)

<u>AFT Sidewall (Left)</u>				<u>Vertical Tail (Pilot Left)</u>		
No.	$Z_0$	X/L	$X_0$	No.	$Z/b_v$	$X/C_v$
114	310	.916	1420.0	120	CNTR APU inlet	
115	↓	.932	1440.0	121	TAIL/BODY Fillet	.30
116	↓	.947	1460.0	122	" " "	.50
117	340	.916	1420.0	123	.15	L.E.
118	↓	.932	1440.0	124		.30
119	↓	.947	1460.0	125		.50
				126	.299	L.E.
				127		.30
				128		.90
				129	.532	L.E.
				130		.30
				131		.90
				132	.765	L.E.
				133		.30
				134		.50
				135		.75
				136		.90
				137	.905	L.E.

TABLE IV. - PRESSURE ORIFICE LOCATIONS  
OMS Pod

<u>No.</u>	<u><math>\phi</math></u>	<u>X/L</u>	<u><math>X_0</math></u>	<u>X/L OMS</u>
138	132	.832	1311	
139	132	.843	1325	
140	132	.862	1350	
141	132.5	.901	1400	
142	132.0	.978	1500	
143	114.2	.843	1325	
144	114.7	.862	1350	
145	113.2	.901	1400	
146	113.6	.978	1500	
147	Center	RCS Package		
148	105	.862	1350	
149	102.7	.901	1400	
150	103.2	.978	1500	
151	Bottom of	RCS Package		
152	149.2	.862	1350	
153	151.2	.901	1400	
154	149.5	.978	1500	
155	See Figure 2			
157	See Figure 2			
156,158	No Orifice			

TABLE IV. - PRESSURE ORIFICE LOCATIONS (Continued)

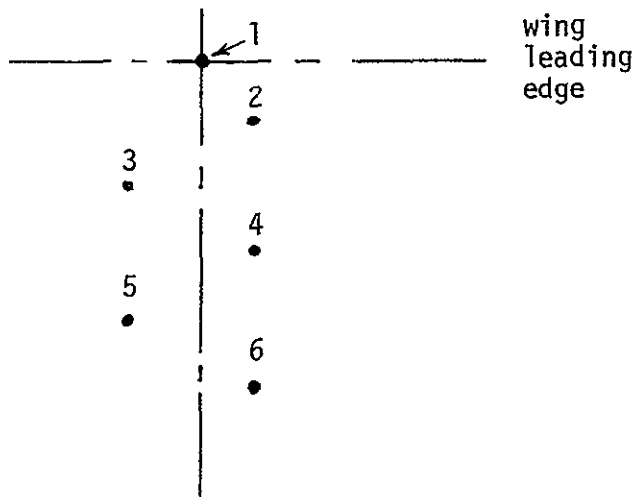
Left Lower Wing

No.	2Y/b	X/C	No.	2Y/b	X/C
159	.25	.025	199-204 Cluster C		
160		.050	(See Chart Below)		
270		.075	205	.55	.10
161		.176	206-211 Cluster D		
162		.318	(See Chart Below)		
163		.459			
164		.601	212	.60	.10
165		.743	213		.30
166		.849	214		.45
167		.955	215		.60
168-173 Cluster A			216		.698
(See Chart Below)			217		.809
174	.34803	L.E.	218		.90
175-180 Cluster B			219		.95
(See Chart Below)			220	.75	L.E.
181	.40	.025	221		30° down
182		.043	222		.10
183		.20	223		.30
184		.30	224		.652
185		.60	225		.797
186		.70	226-231 Cluster E		
187		.751	(See Chart Below)		
188		.831	232	.85	.10
189		.90	233		.30
190		.95	234		.602
191	.50	L.E.	235		.784
192		30° down	236	.95	.10
271		.05	237		.30
193		.10	238		.497
194		.30	239		.751
195		.45	240	1.0	.60
196		.60			
197		.718			
198		.814			

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TABLE IV. - Continued

Wing L. E. Clusters



Cluster	2Y/b	Position					
		1	2	3	4	5	6
A	.30106	168	169	170	171	172	173
B	.40	175	176	177	178	179	180
C	.55	199	200	201	202	203	204
D	.60	206	207	208	209	210	211
E	.85	226	227	228	229	230	231

TABLE IV. - PRESSURE ORIFICE LOCATIONS - (Concluded)

Right Upper Wing

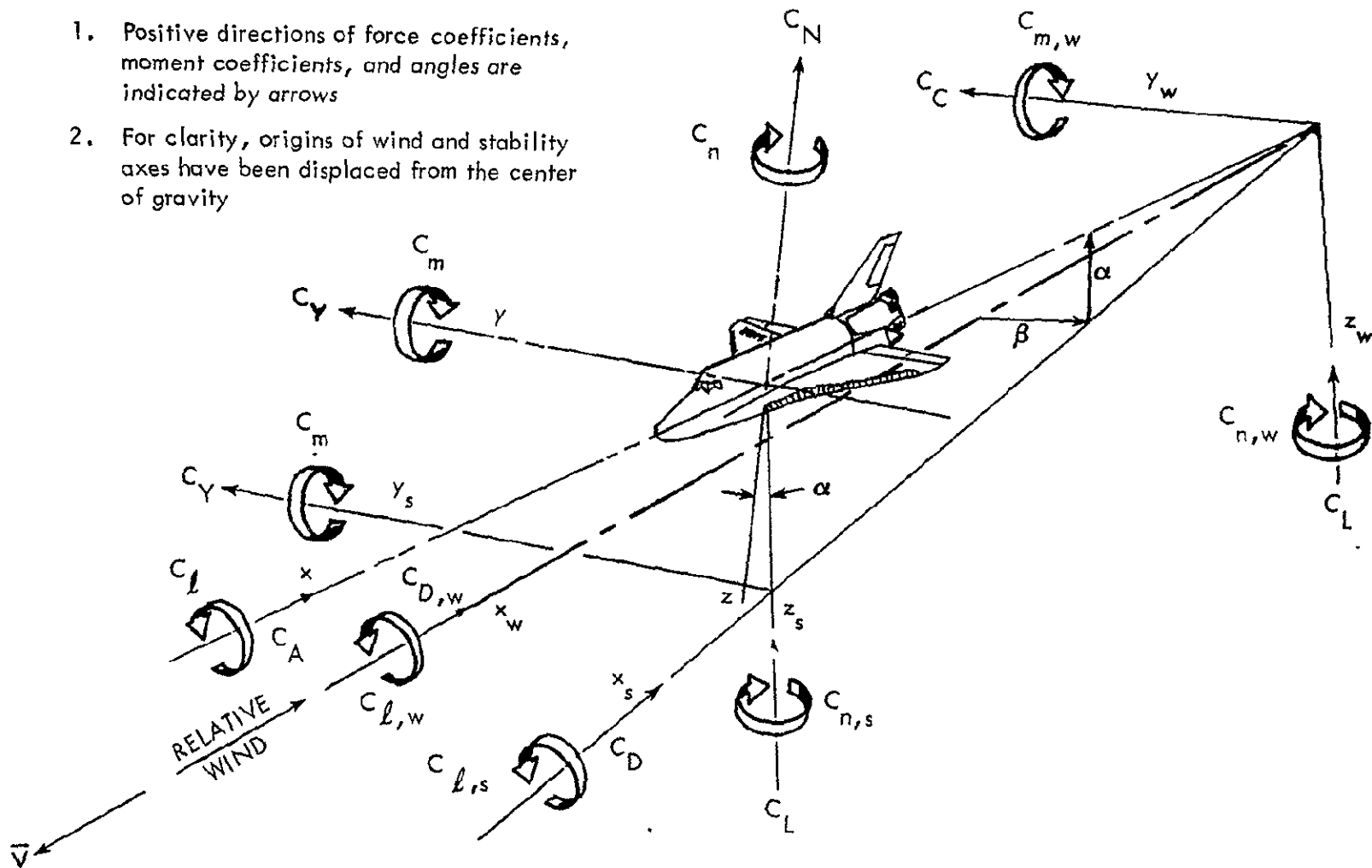
ET ATTACH & LOX LINE  
ATTACH

No.	2Y/b	X/C	No.	X <sub>0</sub>	Y <sub>0</sub>
241	.30	.826	264	1293.2	.70
242	.30	.878	265	1306.1	↓
243	.40	.025	266	1319.0	.965
244	↓	.200	267	1287.2	↓
245	↓	.752	268	1300.1	↓
246	↓	.831	269	1313.0	↓
247	↓				
248	.60	.05			
249	↓	.20			
250	↓	.60			
251	↓	.698			
252	↓	.809			
253	↓	.90			
254	↓	.95			
255	.80	.05			
256	↓	.20			
257	↓	.60			
258	↓	.631			
259	↓	.791			
260	.95	.10			
261	↓	.40			
262	↓	.497			
263	↓	.751			



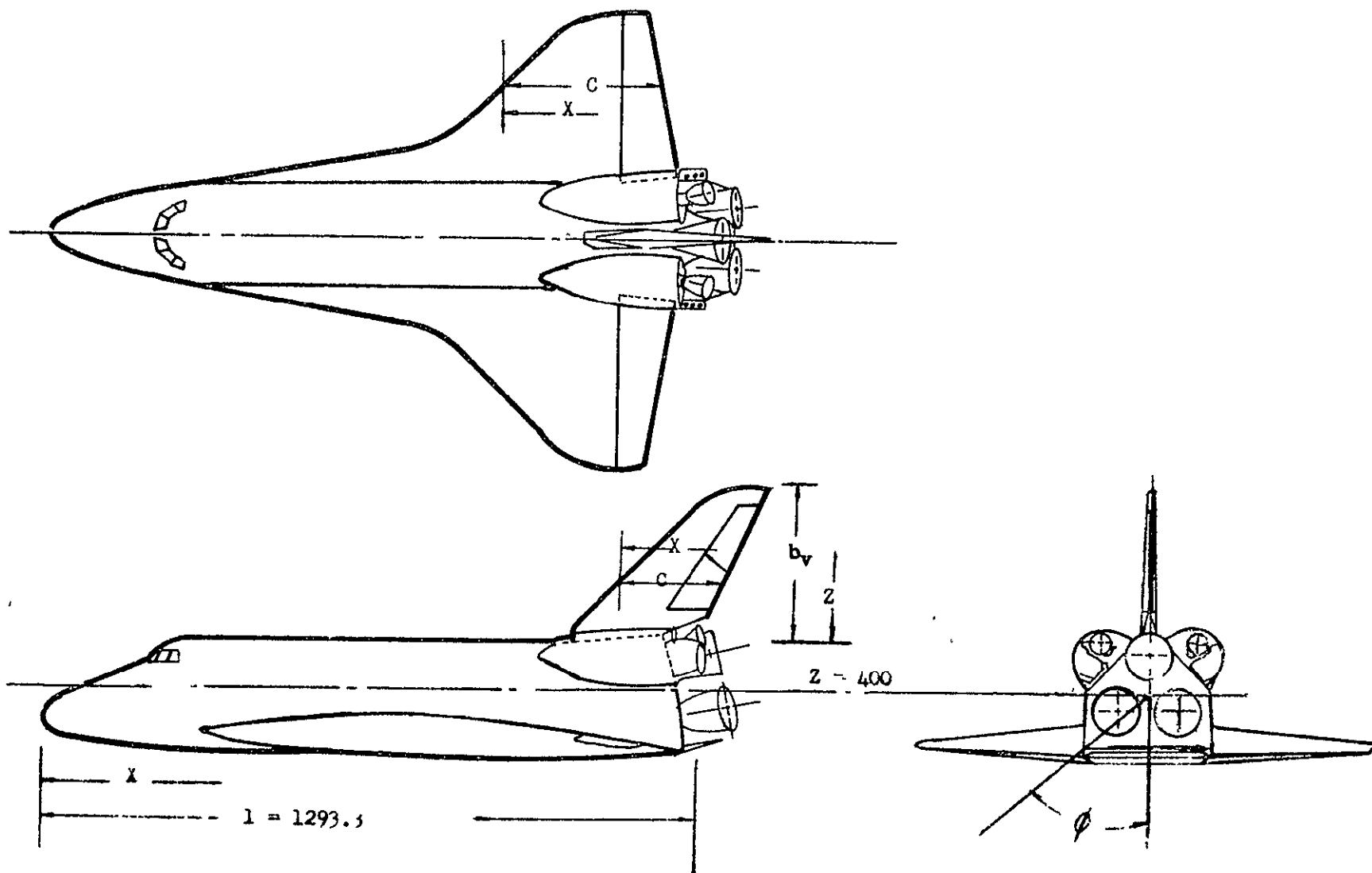
**Notes:**

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



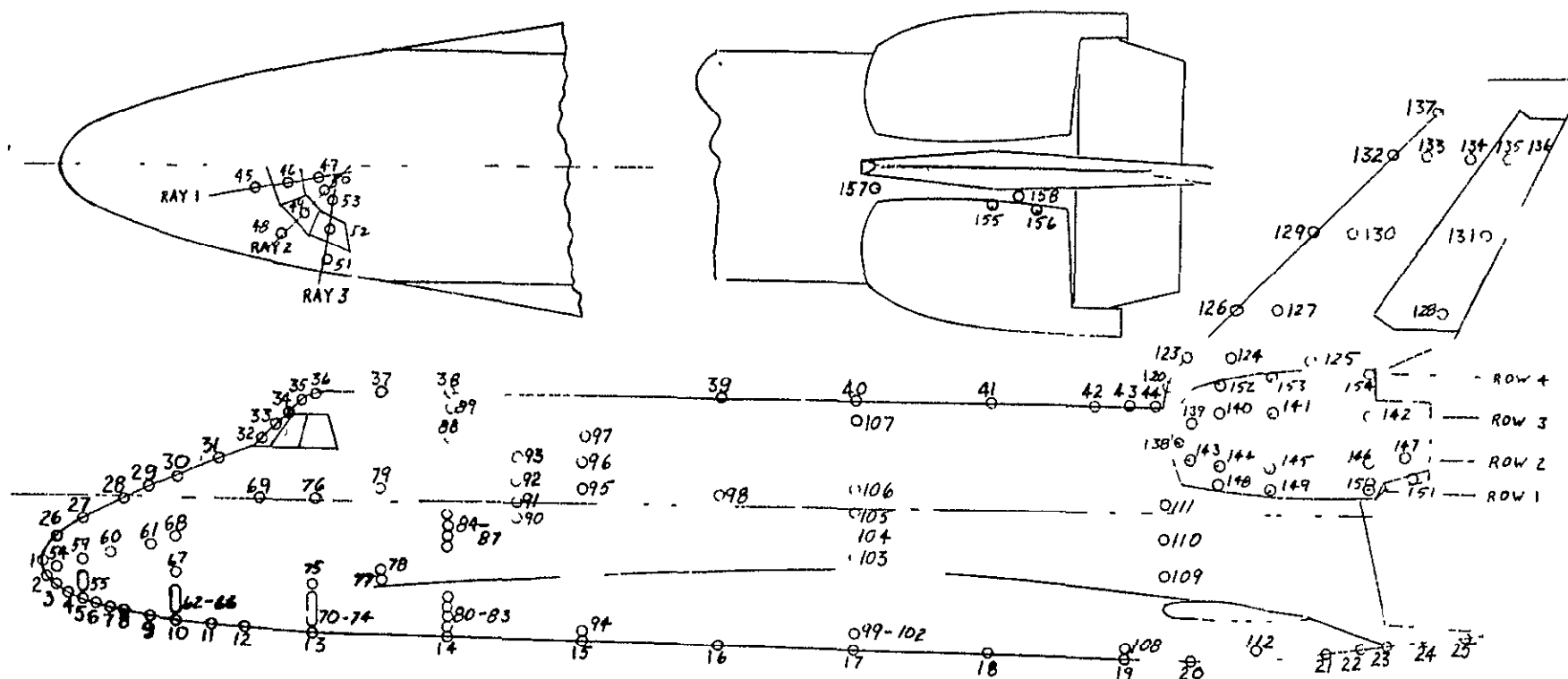
a. General

Figure 1. - Axis systems.



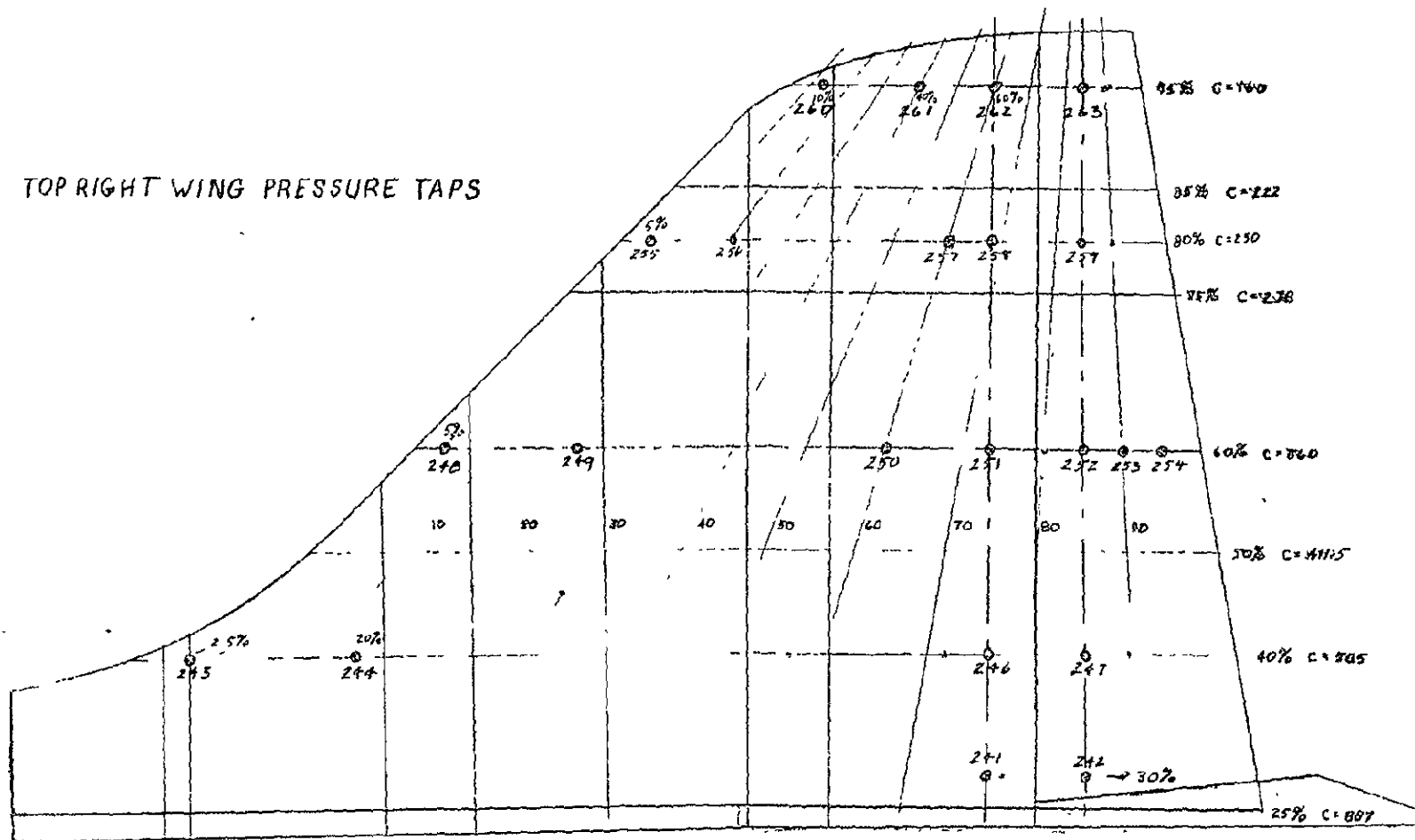
b. Instrumentation Location Definitions

Figure 1. - Concluded.



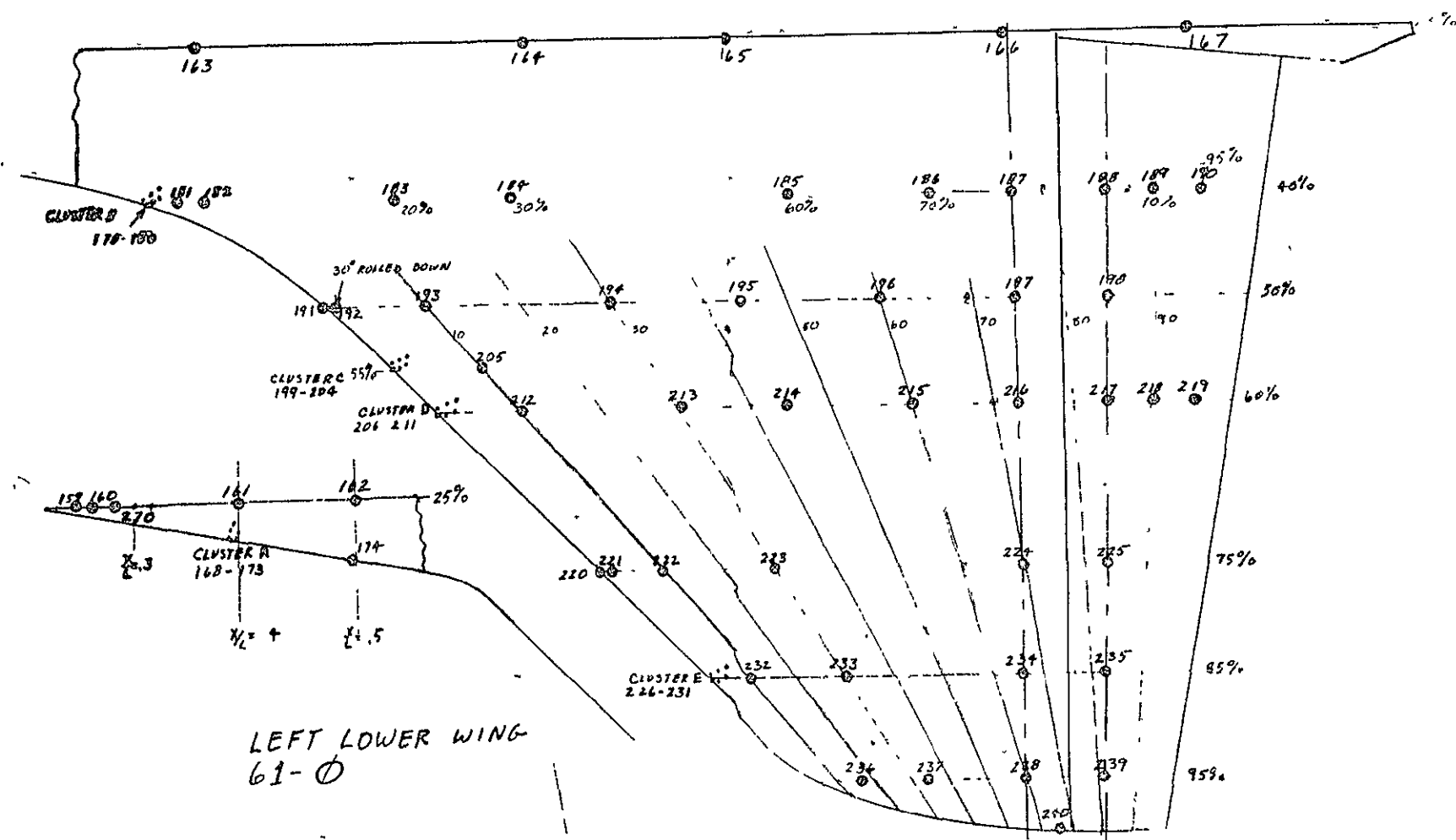
a. Fuselage and Vertical Tail

Figure 2. - 61-0 pressure orifice locations.



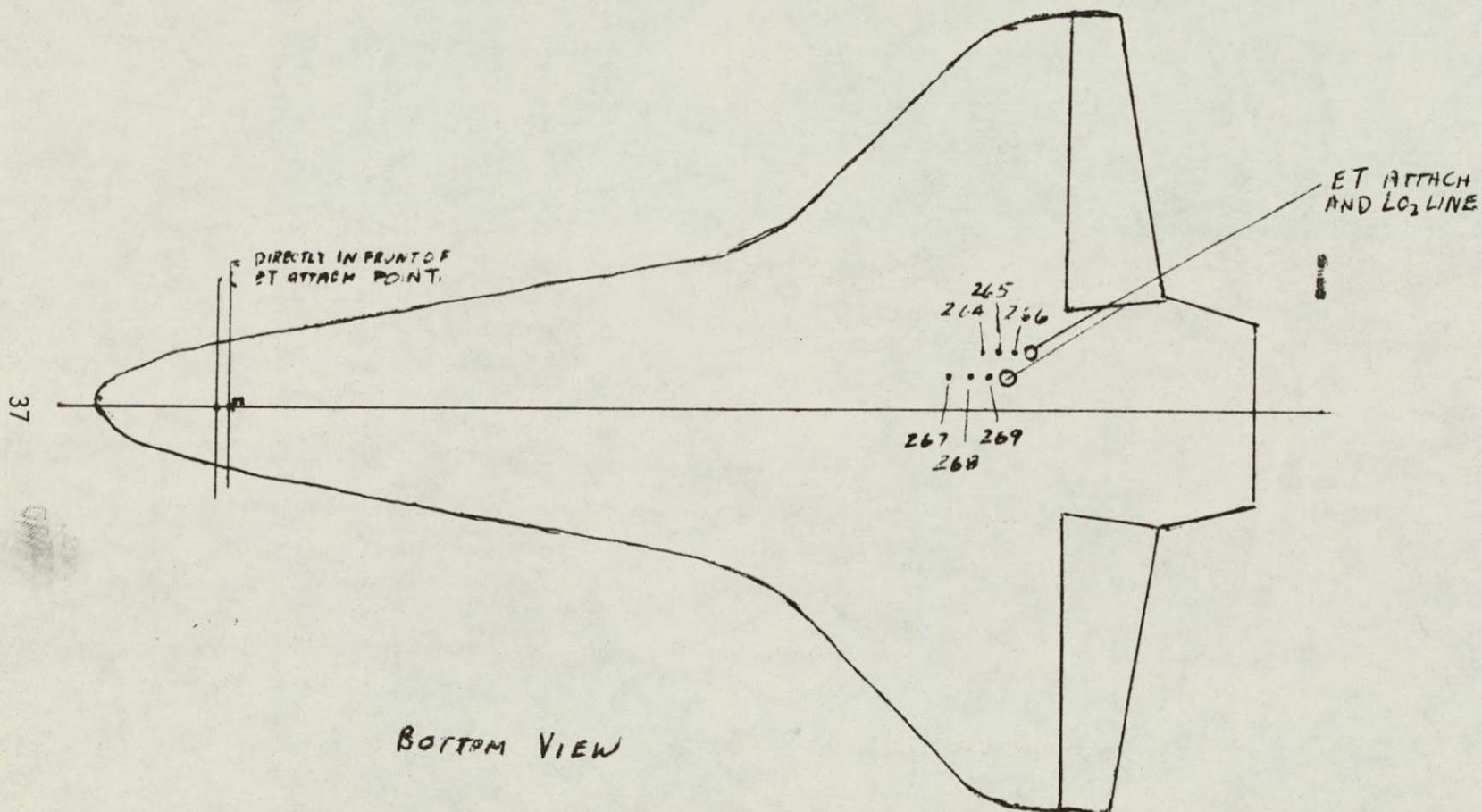
b. Top Right Wing

Figure 2. - Continued.



c. Left Lower Wing

Figure 2. - Continued.



d. Attach Points

Figure 2. - Concluded.



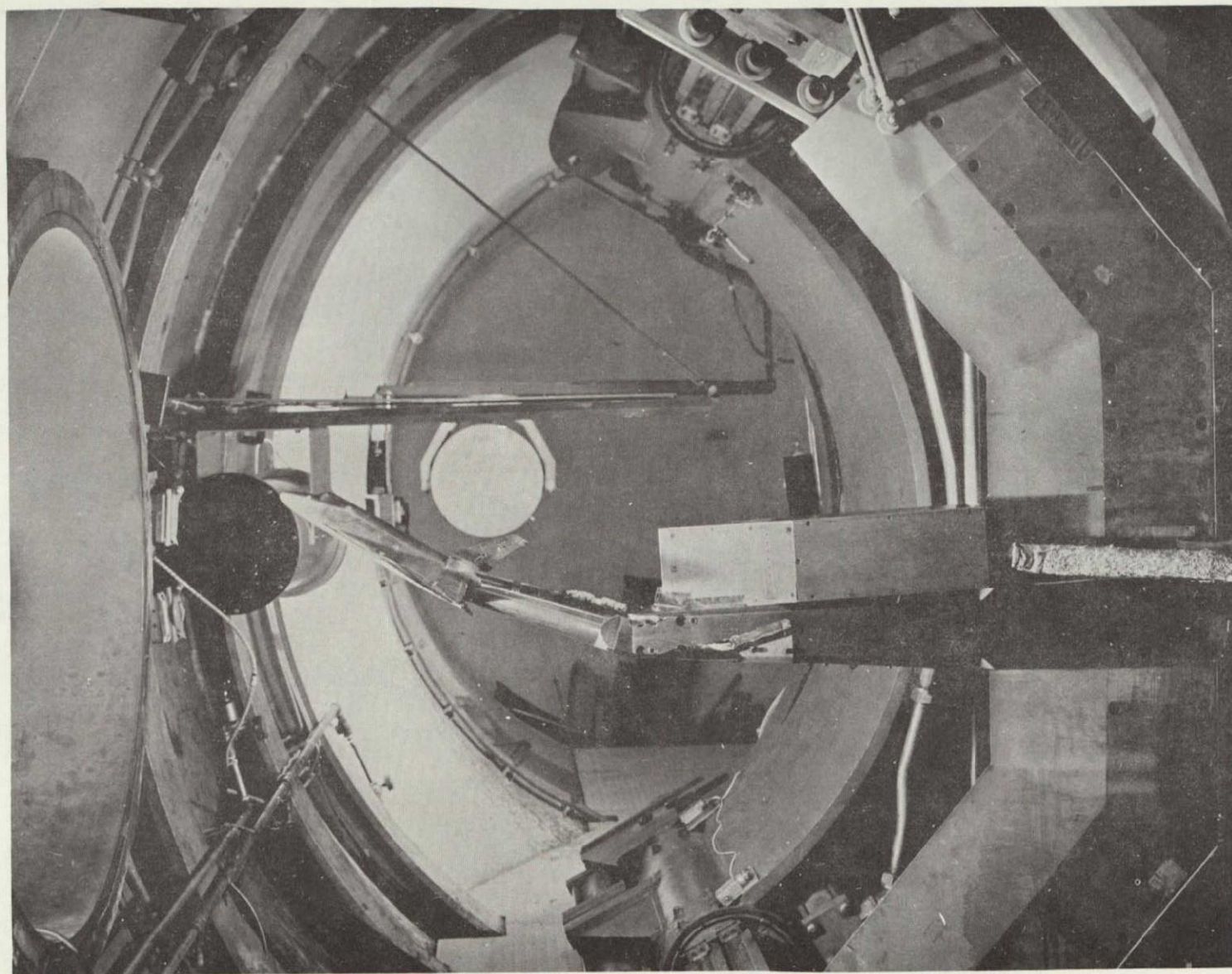


Figure 3. - Model installation photograph.

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## DATA FIGURES

VOLUME 1      Figures 1 through 13      Pages 1-610



ARC 3.5-198 0H38 140C 0RB BOTTOM CENTER LINE (PEZA01)

SYMBOL  
 $\square$   $\diamond$   $\triangle$   $\square$   $\square$   
 $\square$   $\diamond$   $\triangle$   $\square$   $\square$

ALPHA  
 19.261  
 24.886  
 29.509  
 34.843  
 39.947  
 44.132

BL  
 .000

MACH  
 7.320

PARAMETRIC VALUES  
 BETA .000 ELEV-L .000  
 ELEV-R .000 SPOBRK 41.533  
 BOFLAP 15.667 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

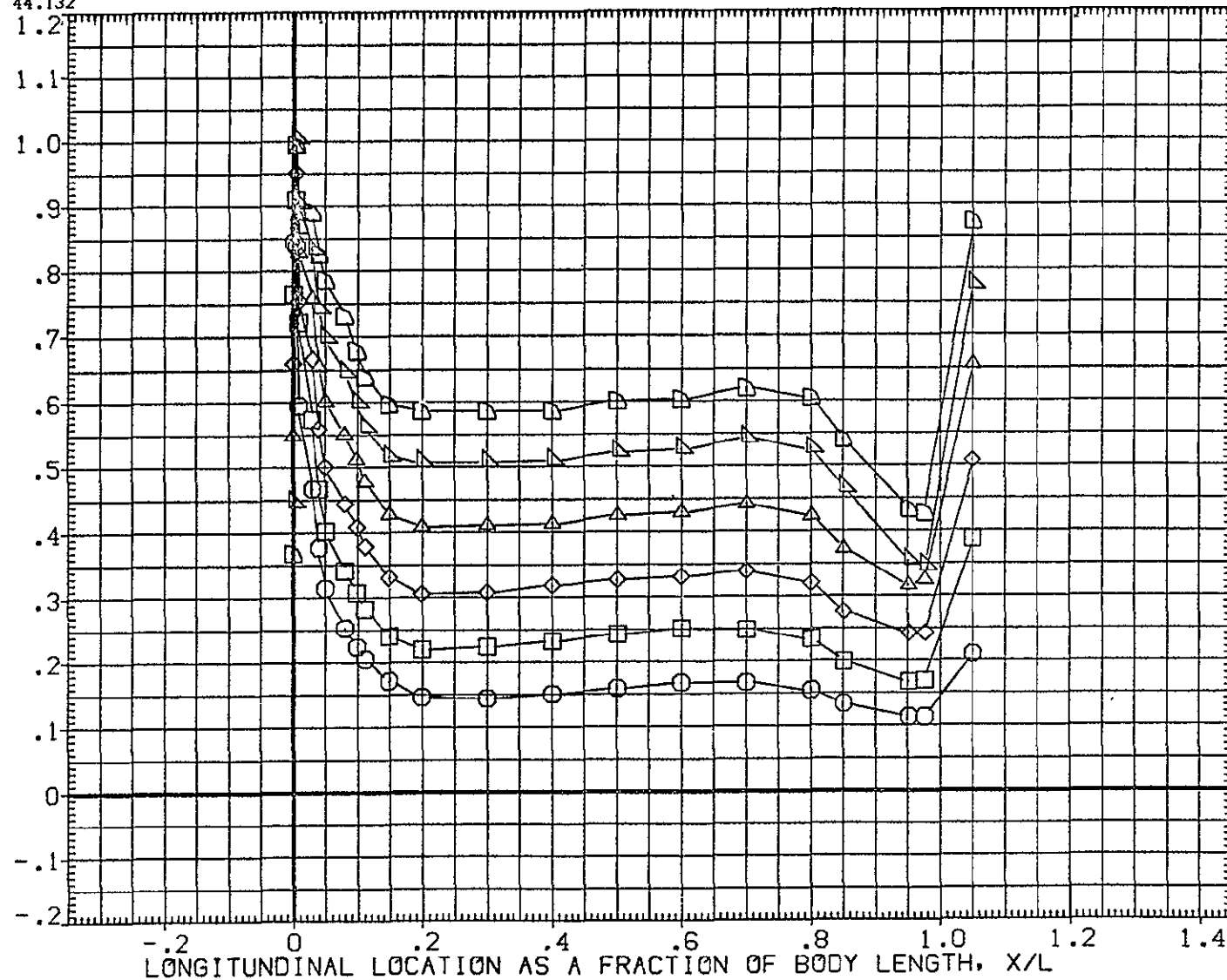


FIG. 4 BOTTOM CENTERLINE

SYMBOL  
○  
◇  
□  
△ALPHA  
19.289  
29.494  
34.774  
44.104  
BL  
.000  
MACH  
7.320PARAMETRIC VALUES  
BETA .000 ELEV-L .117  
ELEV-R .000 SPDBRK .000  
BOFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

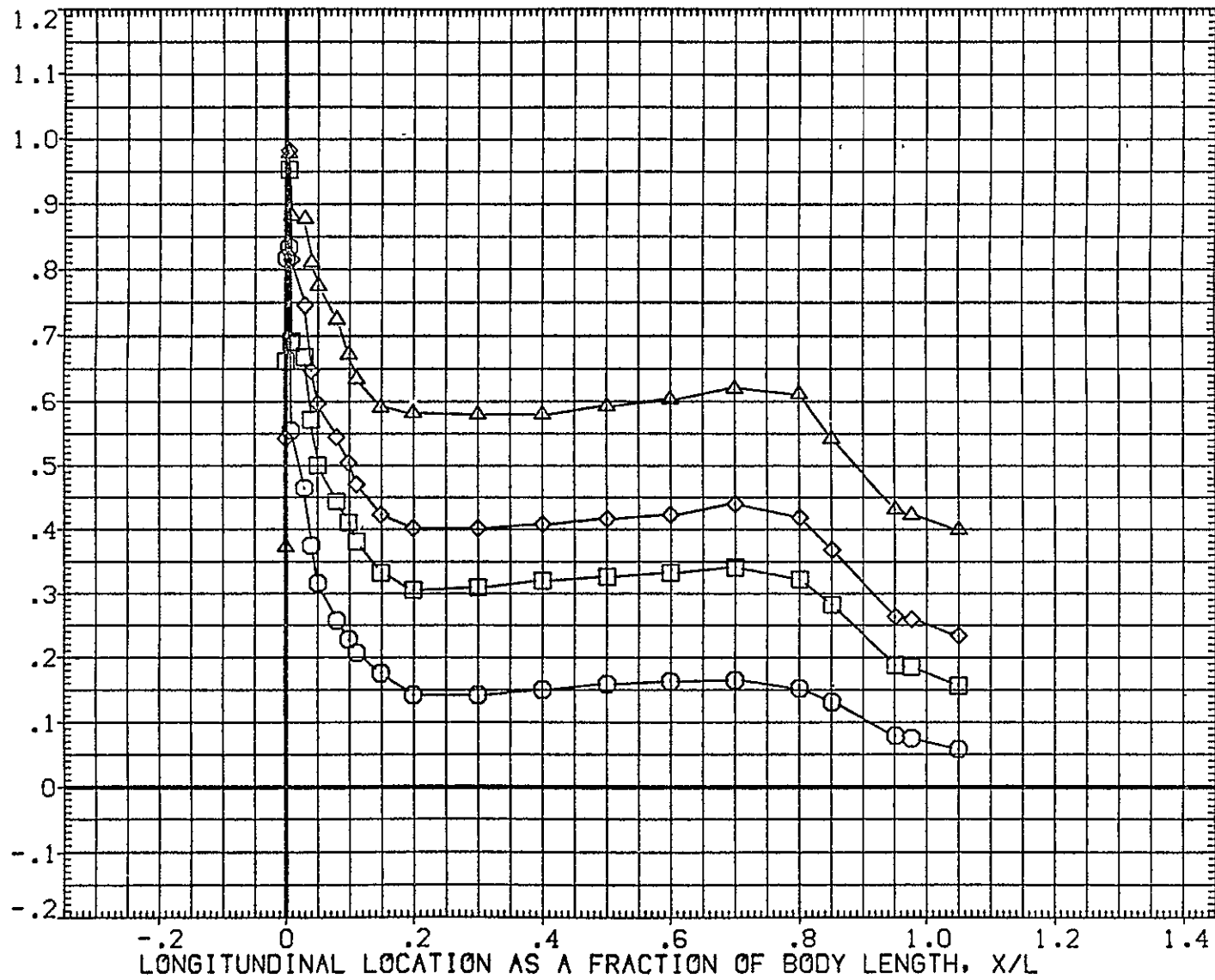


FIG. 4 BOTTOM CENTERLINE

# ARC 3.5-198 0H38 140C 0RB BOTTOM CENTER LINE (PEZA04)

SYMBOL	ALPHA	BL	MACH
○	19.776	.000	7.320
□	29.613		
◇	39.926		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

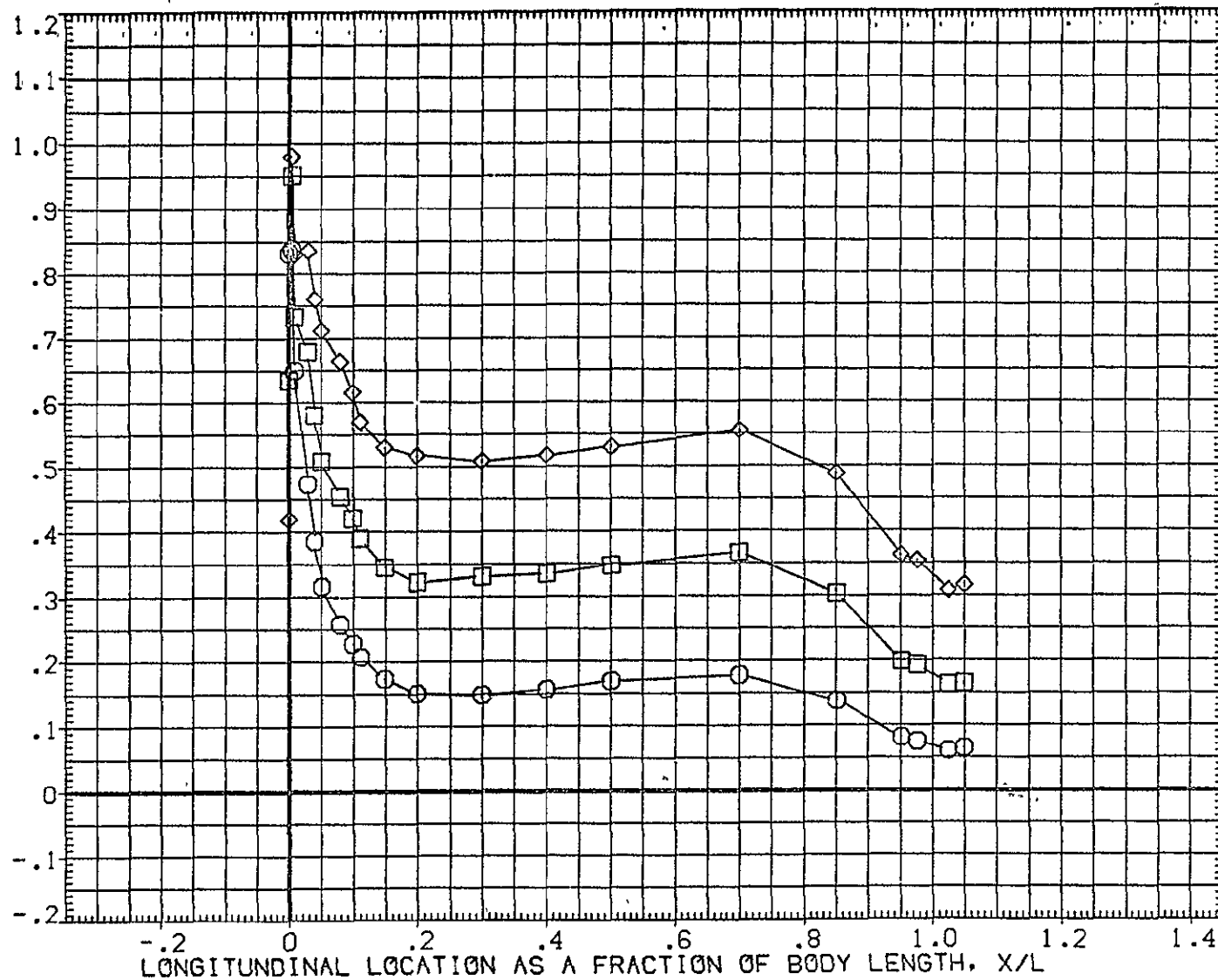


FIG. 4 BOTTOM CENTERLINE

SYMBOL

ALPHA

BL

MACH

PARAMETRIC VALUES

BETA

.000

ELEV-L

5.050

ELEV-R

4.100

SPDBRK

.000

BOFLAP

.000

RN/L

3.000

19.496

.000

7.320

29.560

32.095

39.911

45.000

50.000

○

□

◇

△

▽

◇

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

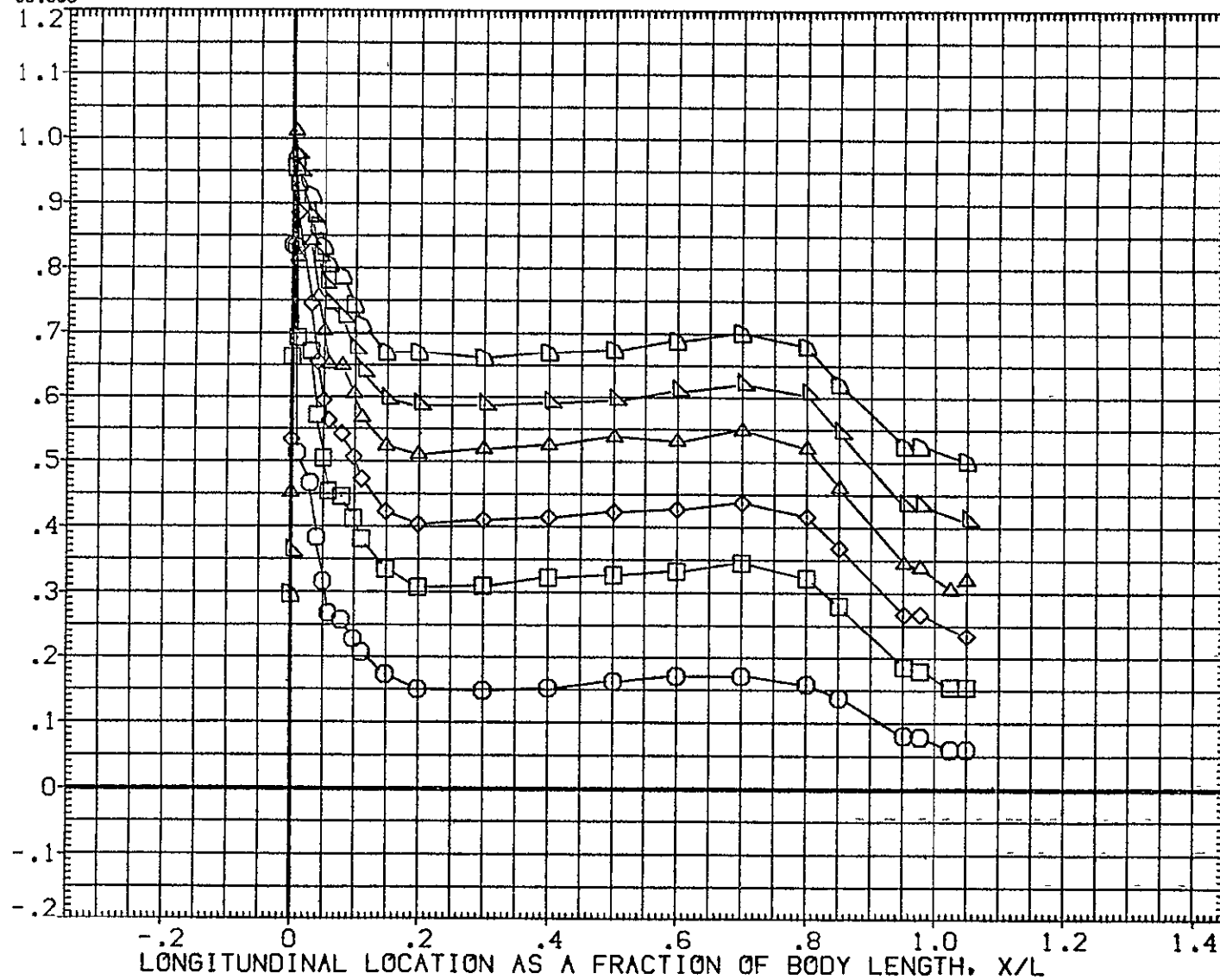


FIG. 4 BOTTOM CENTERLINE

ARC 3.5-198 0H38 140C 0RB BOTTOM CENTER LINE (PEZA07)

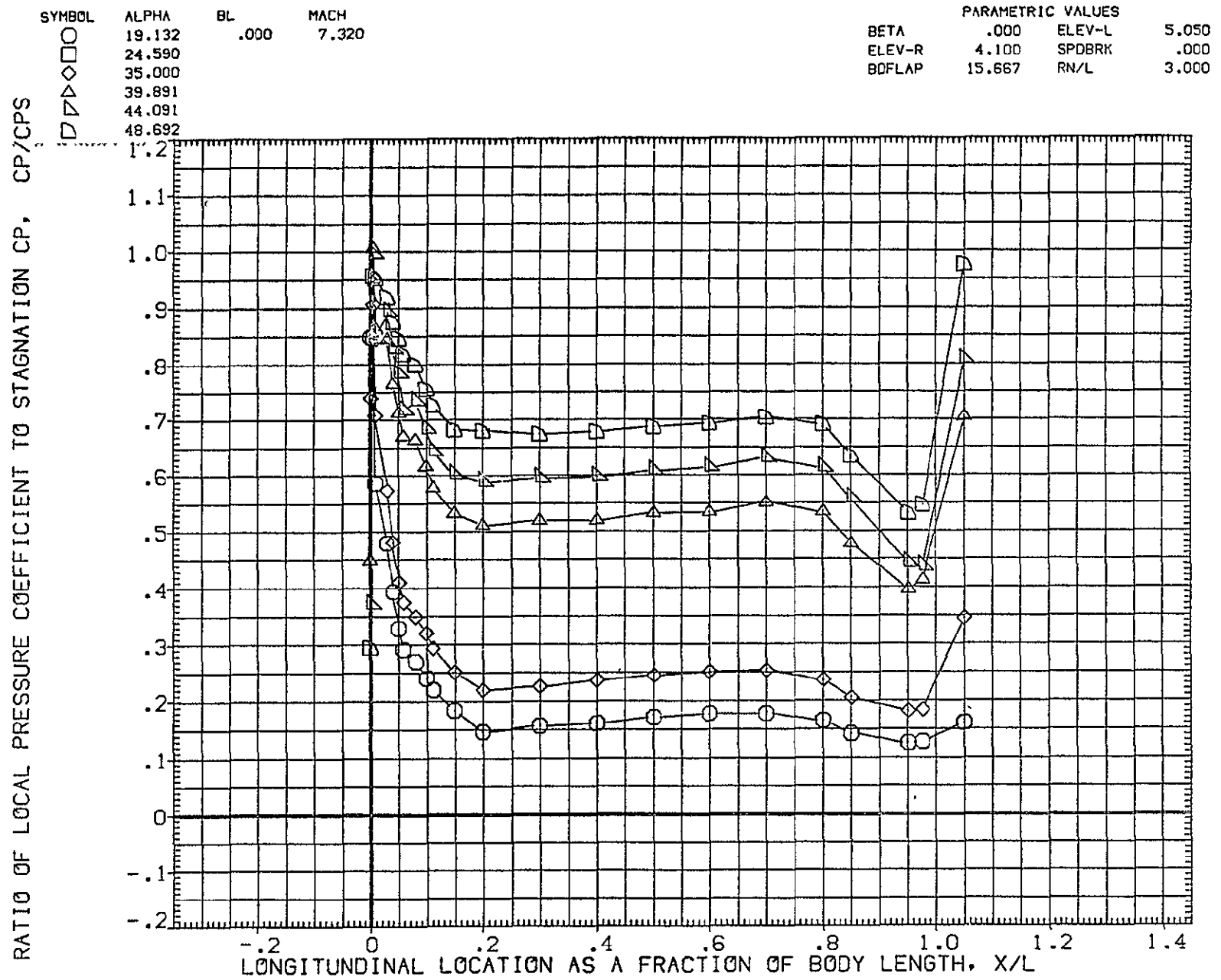


FIG. 4 BOTTOM CENTERLINE

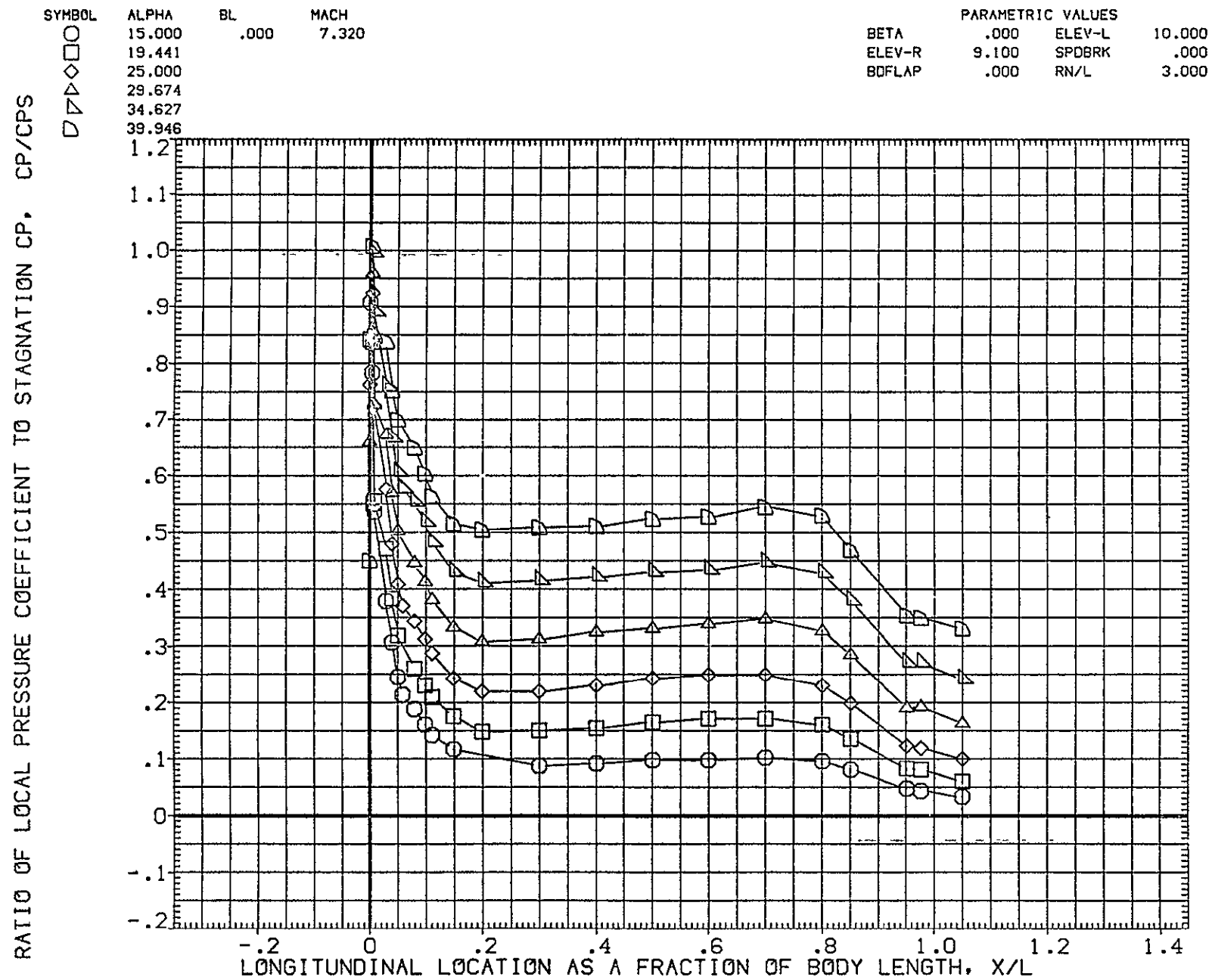


FIG. 4 BOTTOM CENTERLINE

# ARC 3.5-198 OH38 140C ORB BOTTOM CENTER LINE (PEZA11)

SYMBOL  
○  
□

ALPHA  
44.081  
48.676

BL  
.000

MACH  
7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

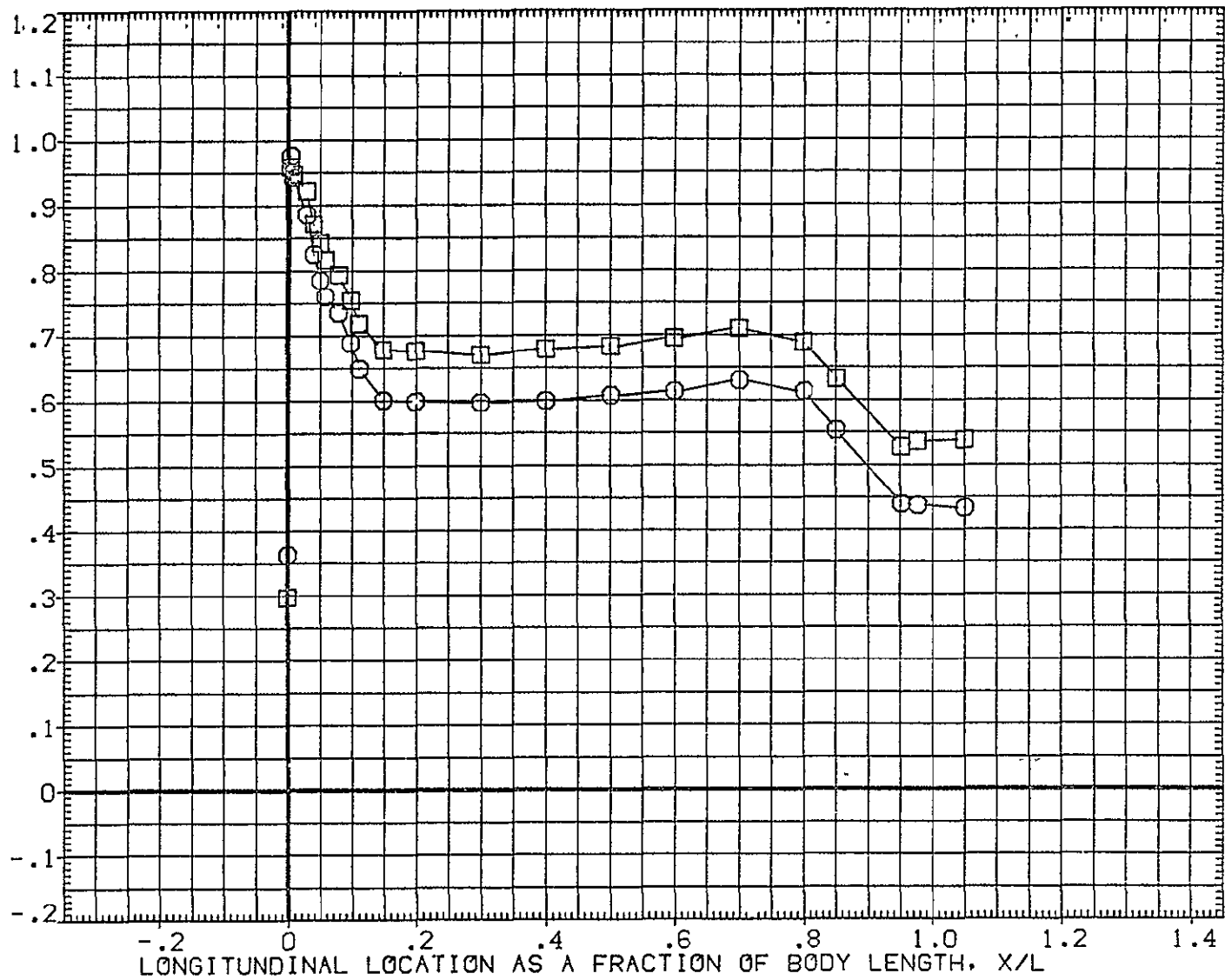


FIG. 4 BOTTOM CENTERLINE

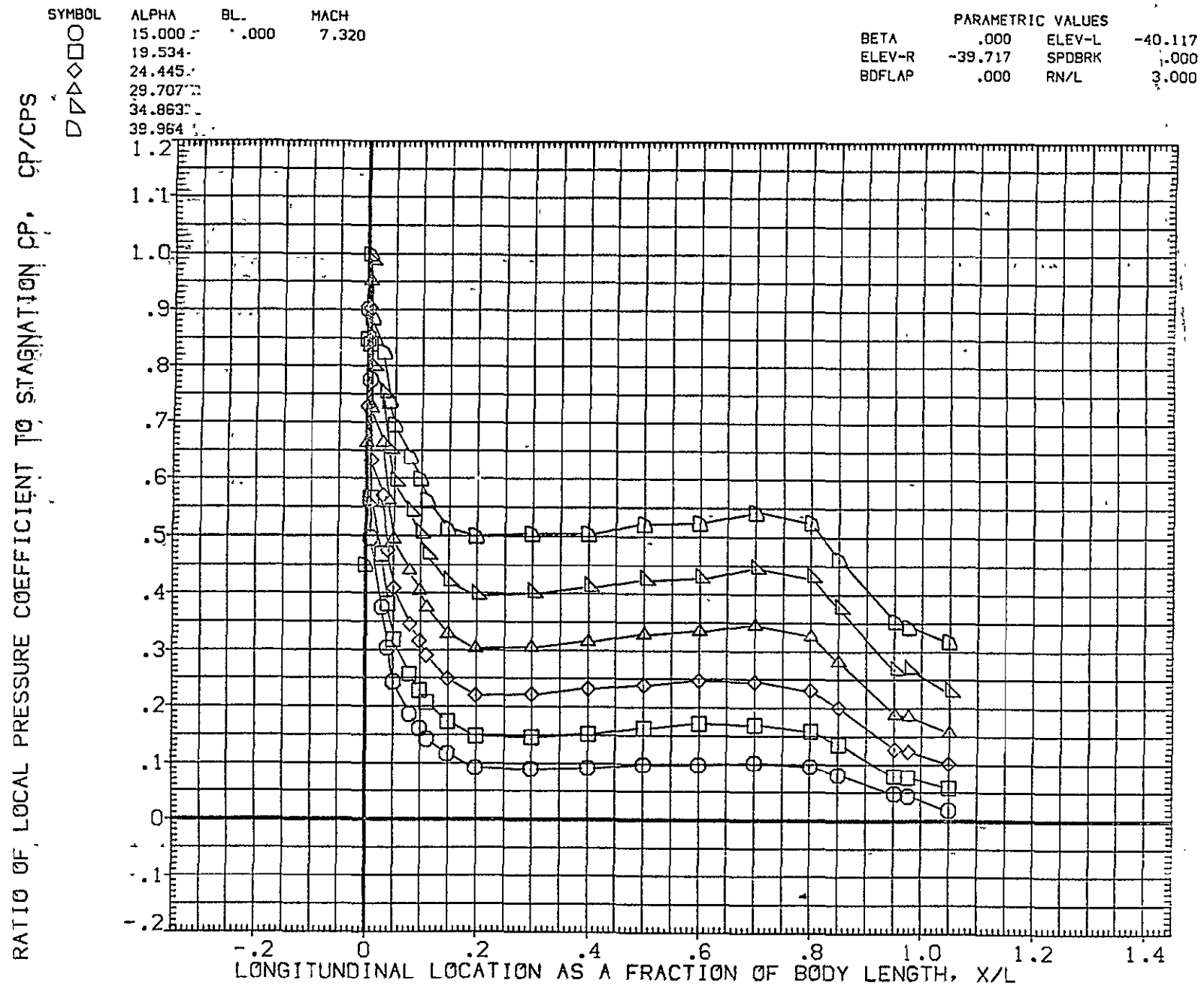


FIG. 4 BOTTOM CENTERLINE



# ARC 3.5-198 0H38 140C 0RB BOTTOM CENTER LINE (PEZA14)

SYMBOL	ALPHA	BL	MACH
○	44.152	.000	7.320
□	50.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

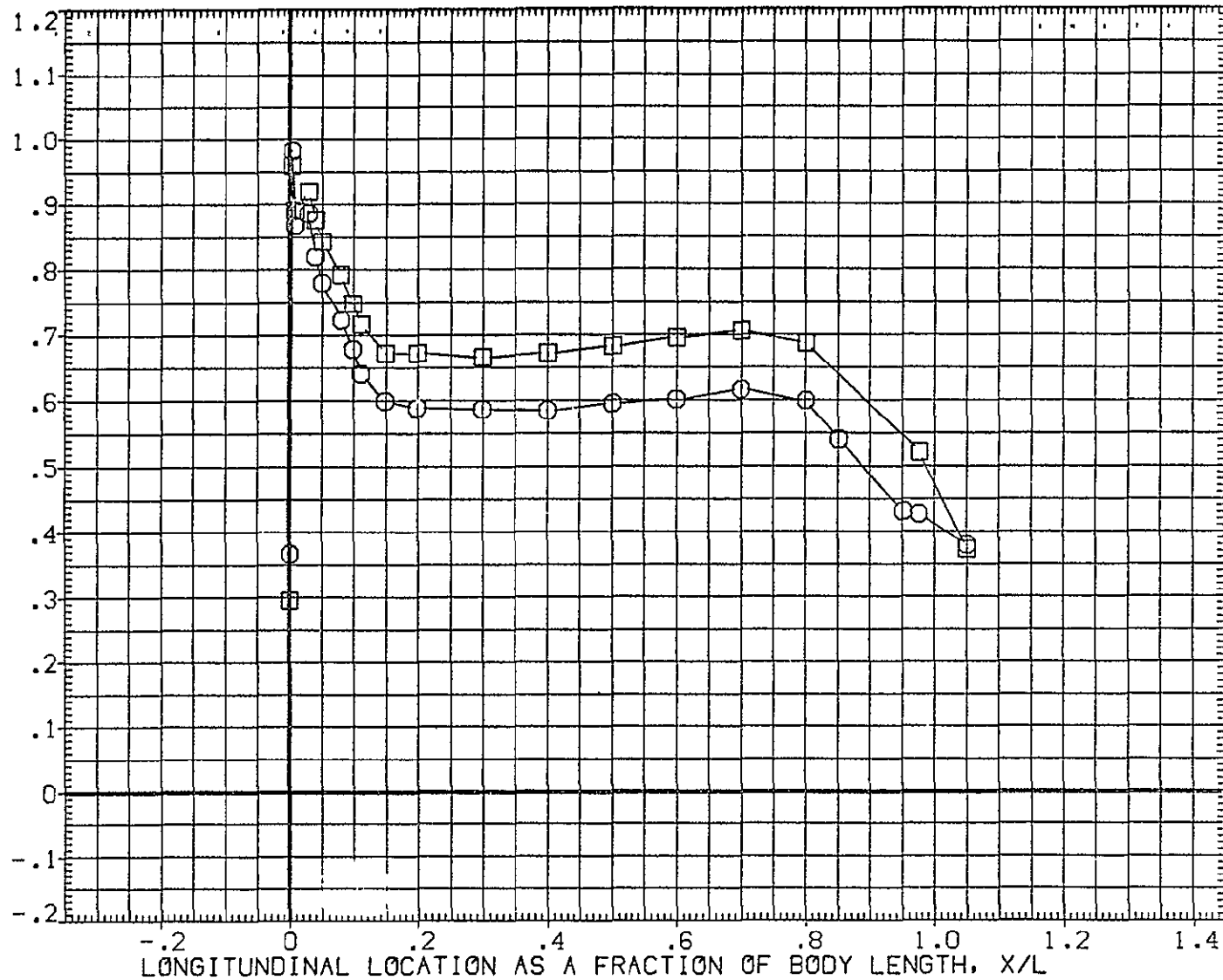


FIG. 4 BOTTOM CENTERLINE

SYMBOL	ALPHA	BL	MACH
○	19.582°	.000	7.320
□	24.797°		
◇	29.720°		
△	34.753°		
▽	48.717°		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

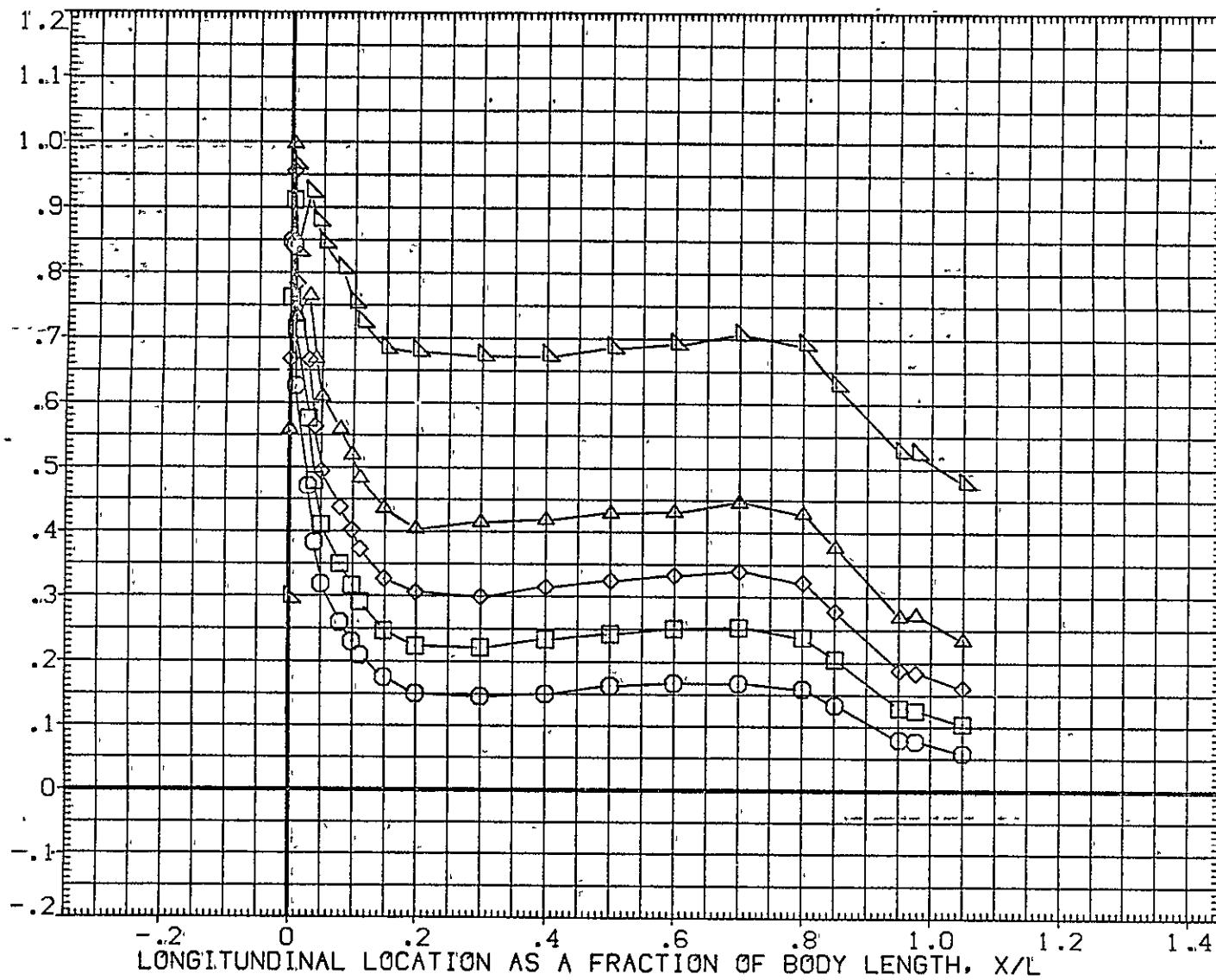


FIG. 4 BOTTOM CENTERLINE

ARC 3.5-198 OH38 140C ORB BOTTOM CENTER LINE (PEZA20)

SYMBOL  
 O  
 □  
 ◇  
 △  
 ▽  
 ▴  
 .

ALPHA  
 19.744  
 24.851  
 29.725  
 34.881  
 39.932  
 44.136

BL  
 .000

MACH  
 10.290

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

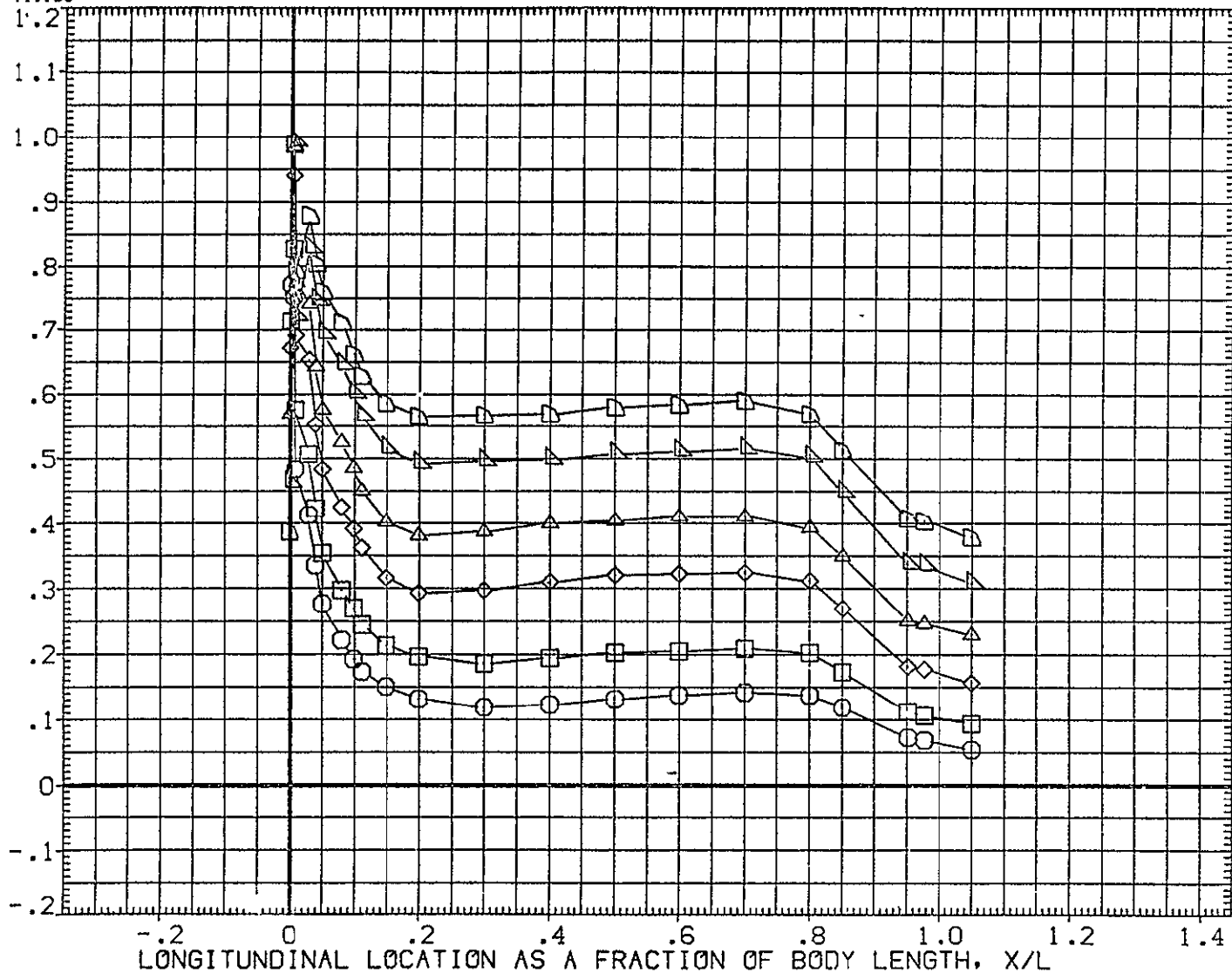


FIG. 4 BOTTOM CENTERLINE

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL01)

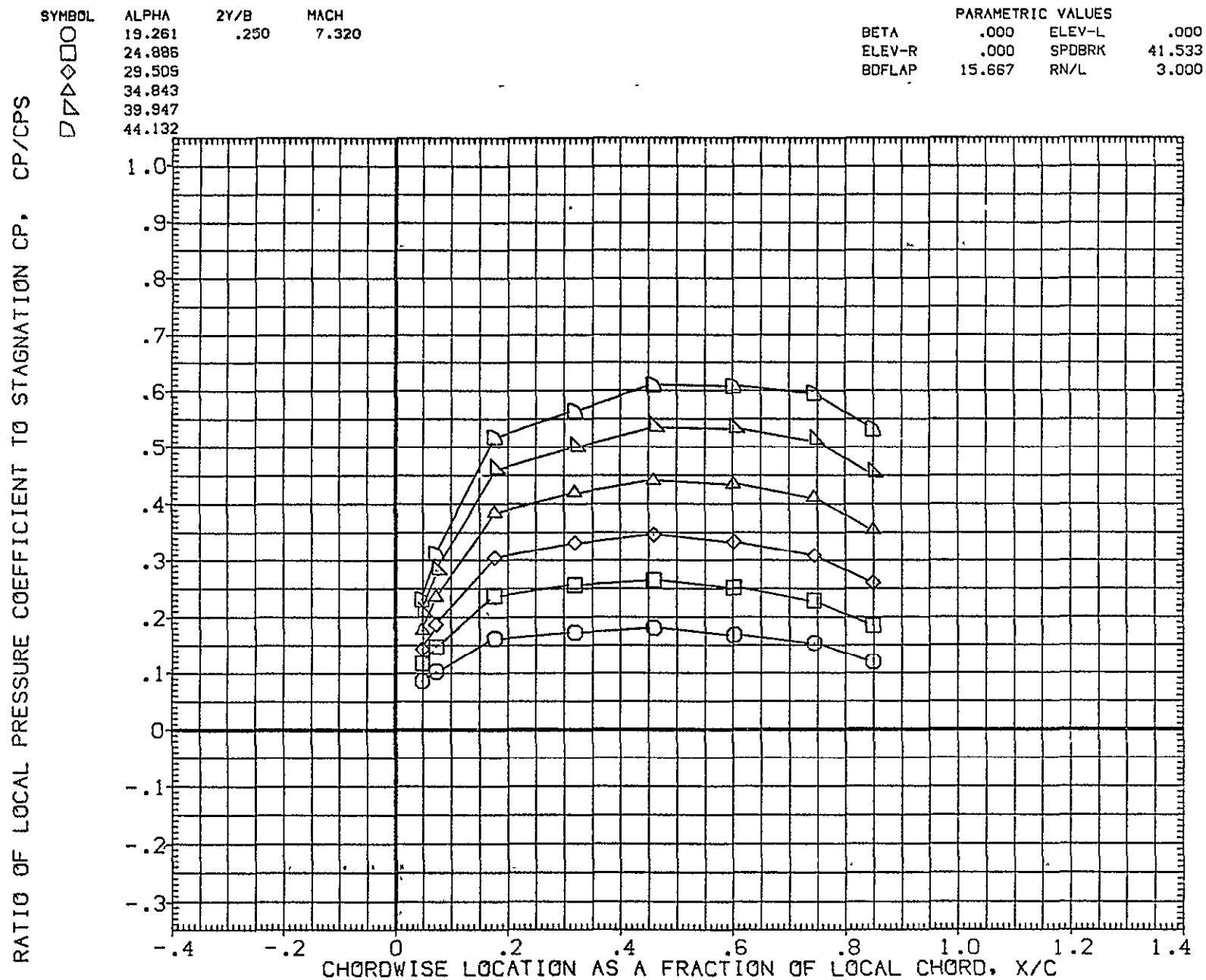


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO1)

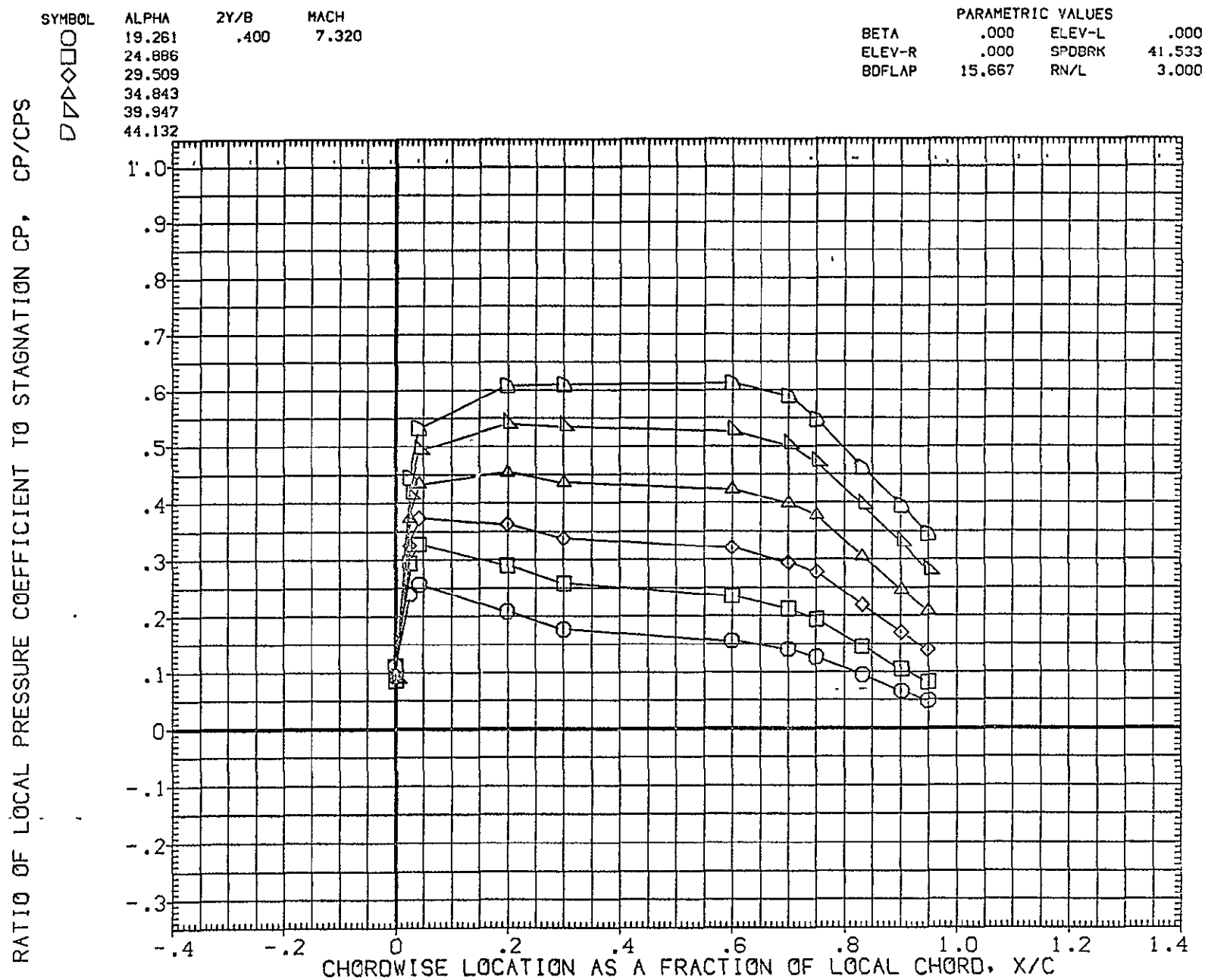


FIG. 5 WING LOWER SURFACE (LT)

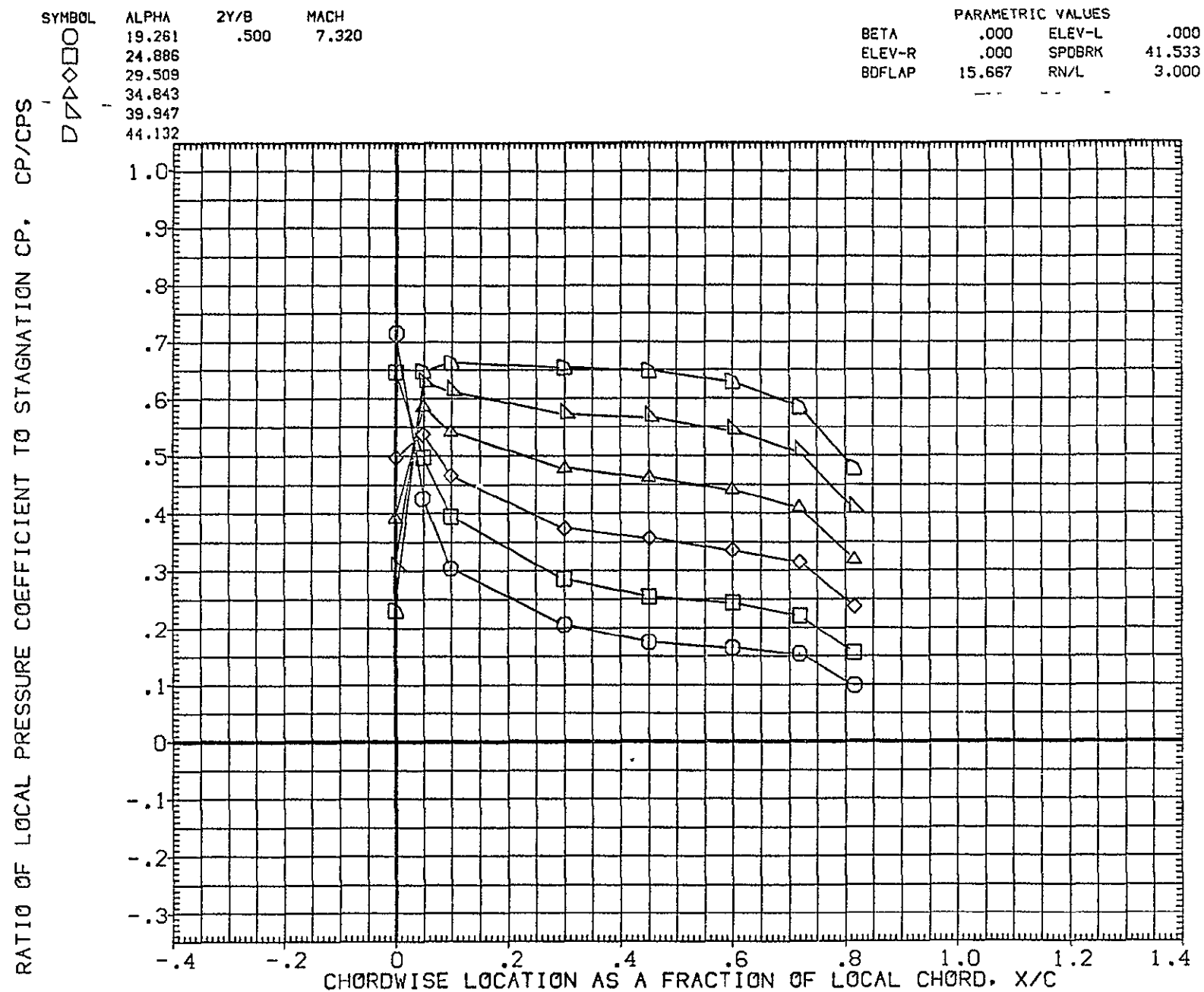


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO1)

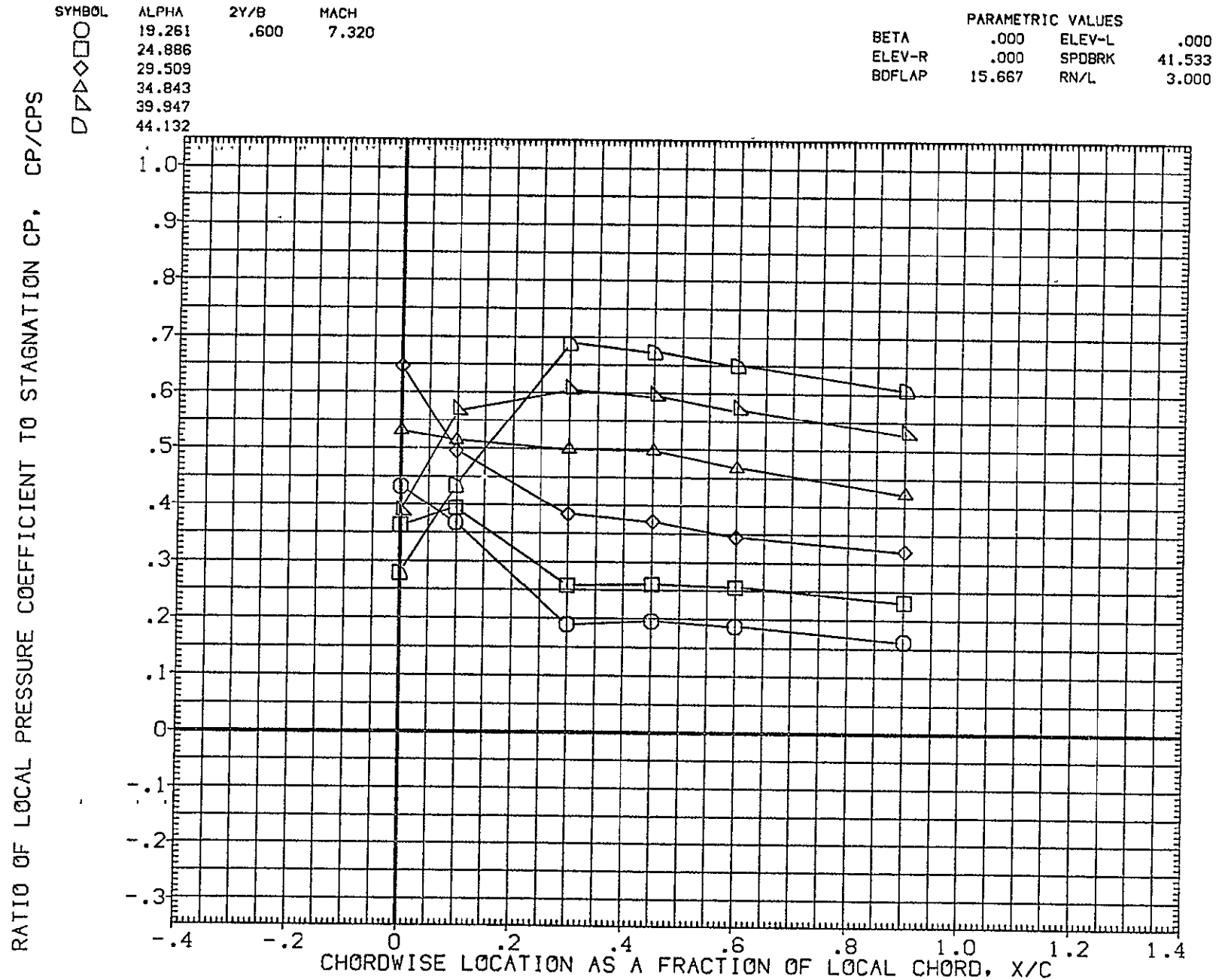


FIG. 5 WING LOWER SURFACE (LT)

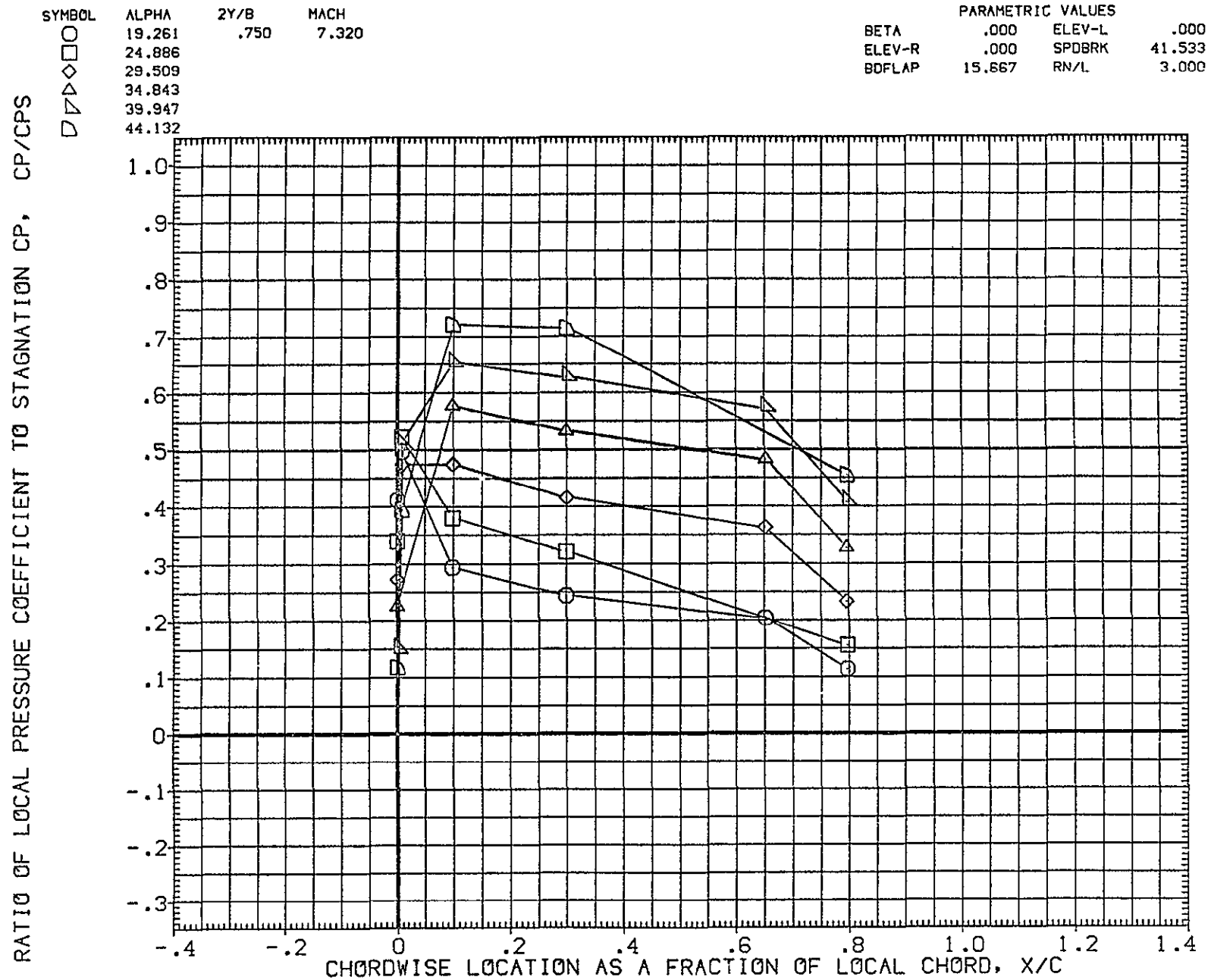


FIG. 5 WING LOWER SURFACE (LT)



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ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZLO1)

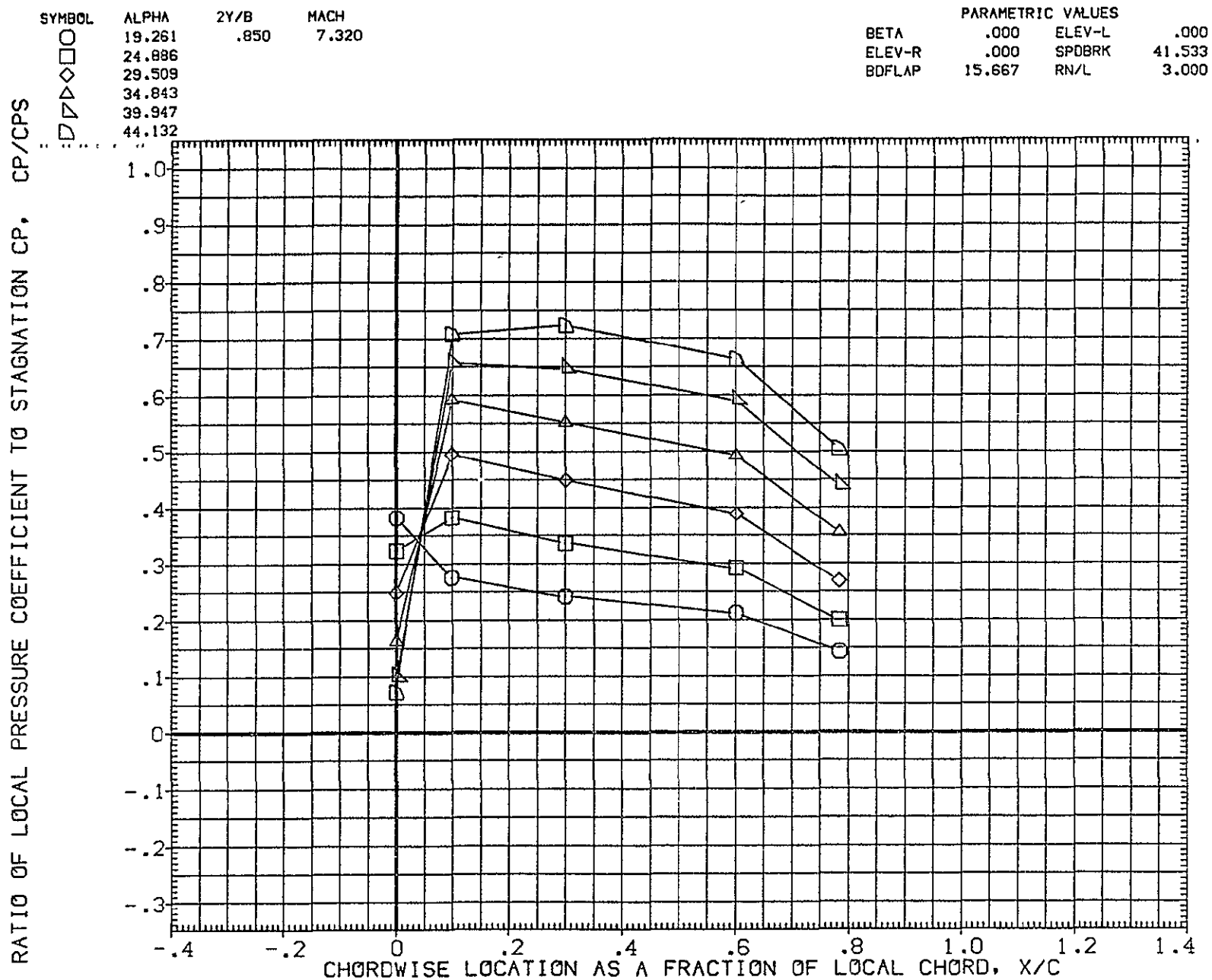


FIG. 5 WING LOWER SURFACE (LT)

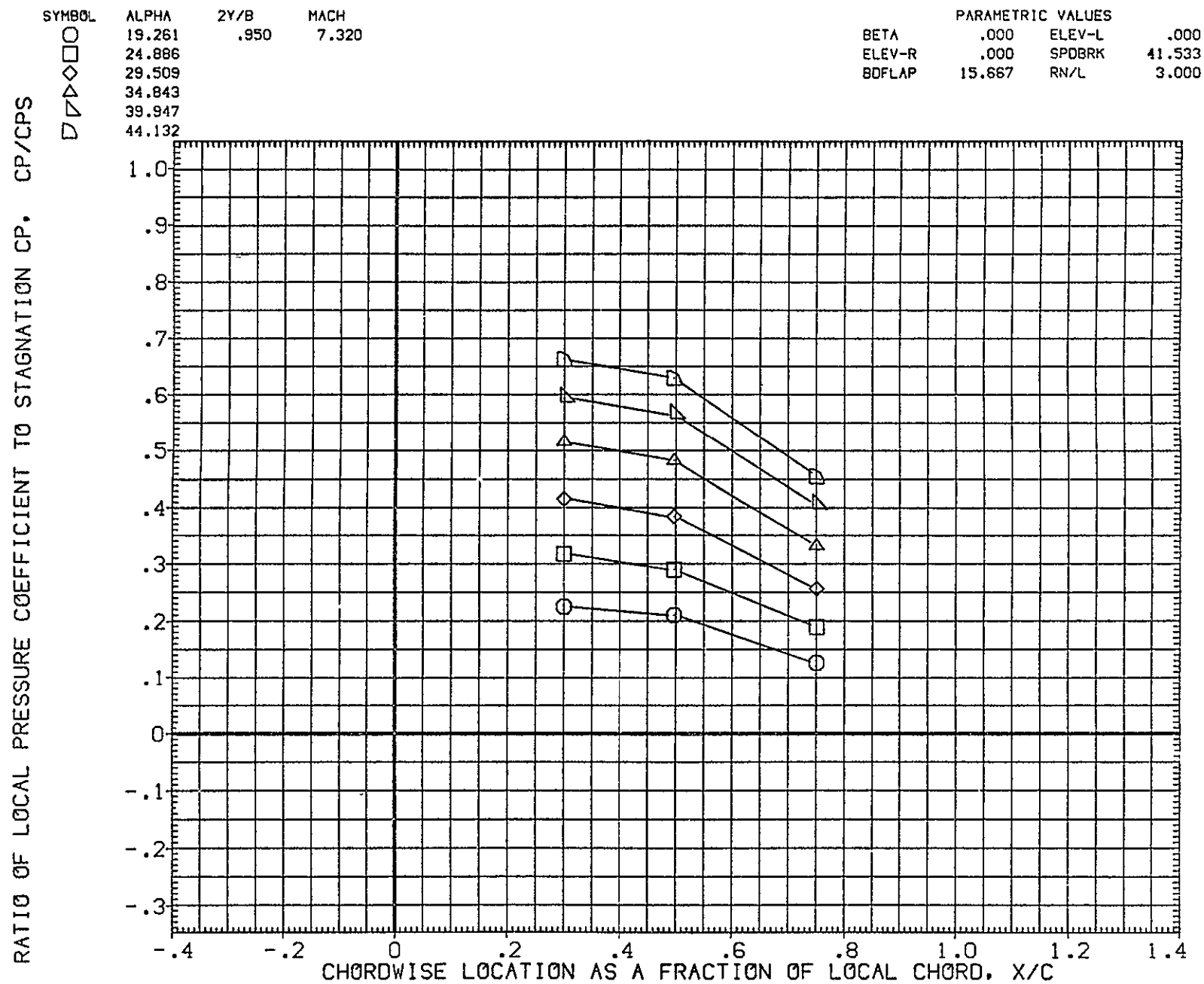


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO3)

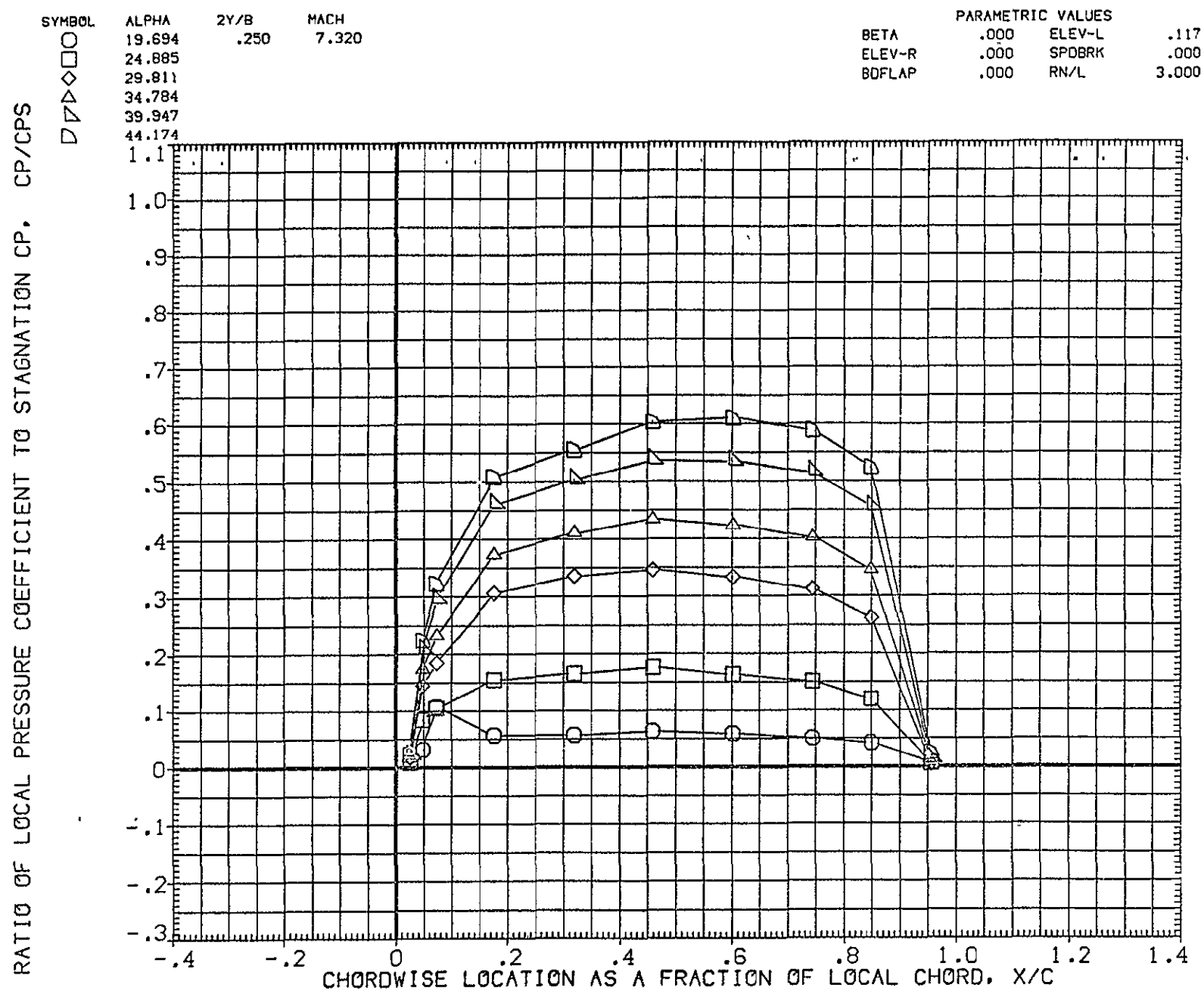


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL	ALPHA	2Y/B	MACH
○	48.803	.250	7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

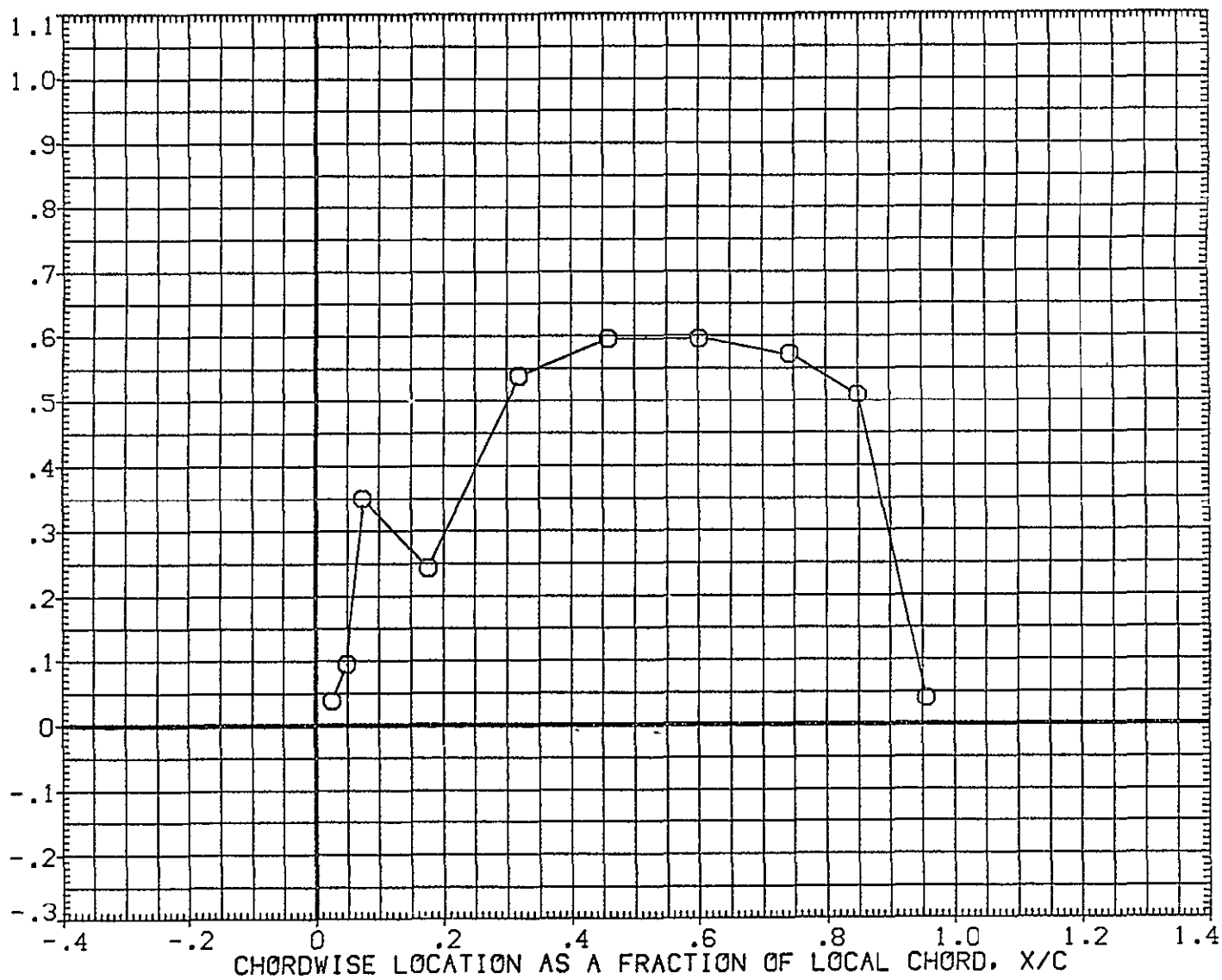


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO3)



FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO3)

SYMBOL ALPHA 2Y/B MACH  
O 49.803 .400 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L .117  
ELEV-R .000 SPDBRK .000  
BDELAP .000 RNZL 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

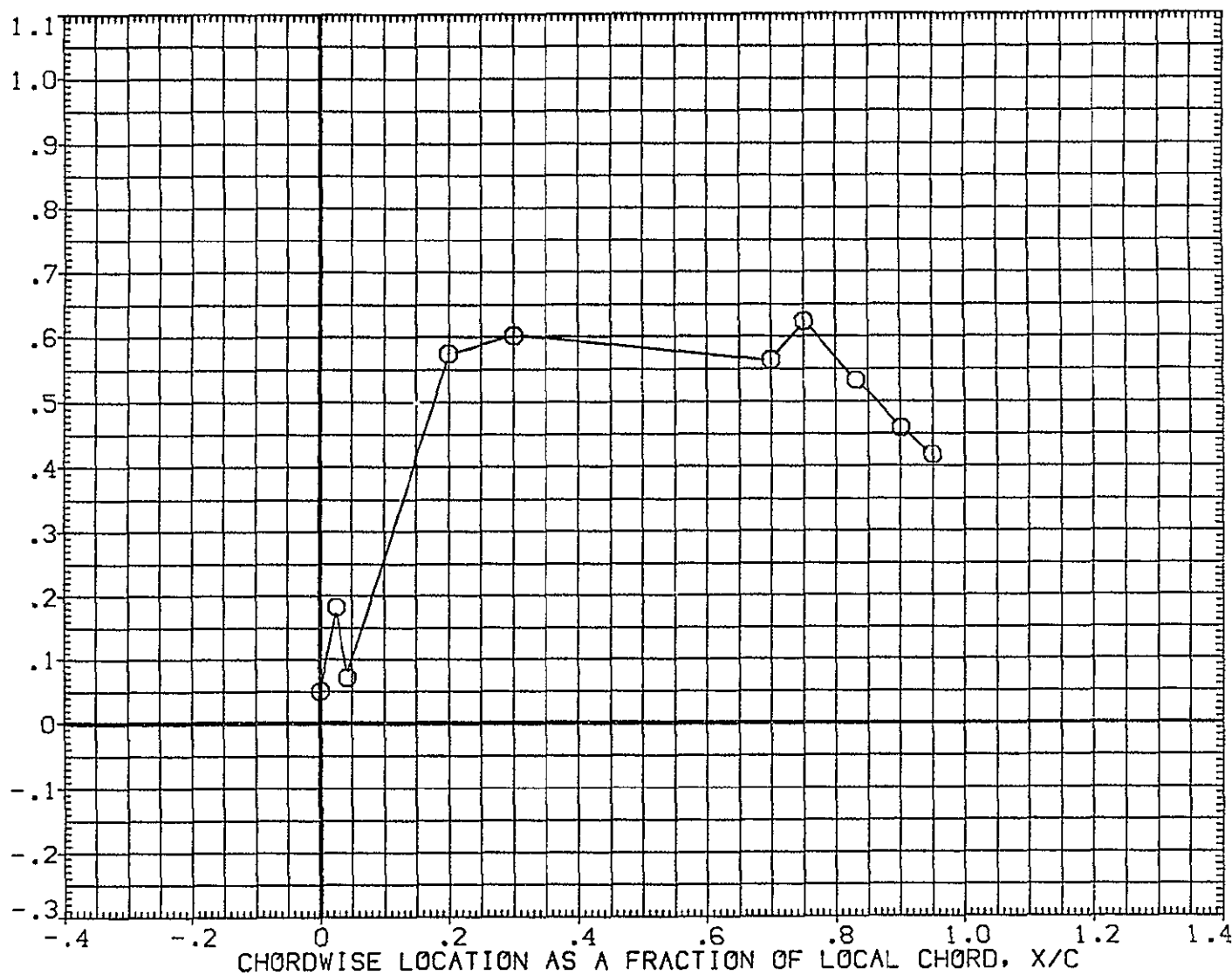


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT) (LEZLO3)

SYMBOL

ALPHA

ZY/B

MACH

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

19.694  
24.885  
29.811  
34.784  
39.947  
44.174

○  
□  
◇  
△  
▽  
◇

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

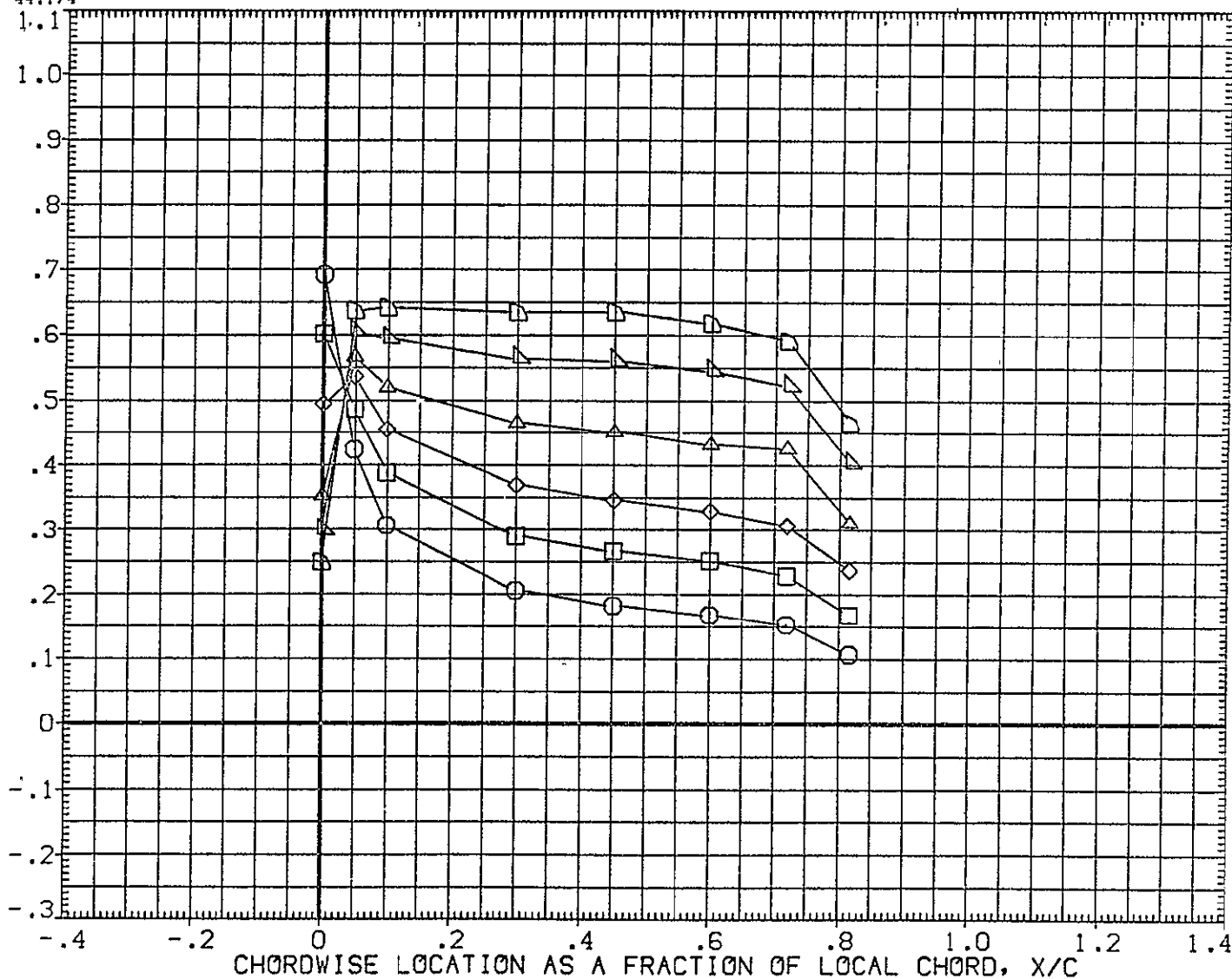


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL  
○ALPHA  
48.8032Y/B  
.500MACH  
7.320

## PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

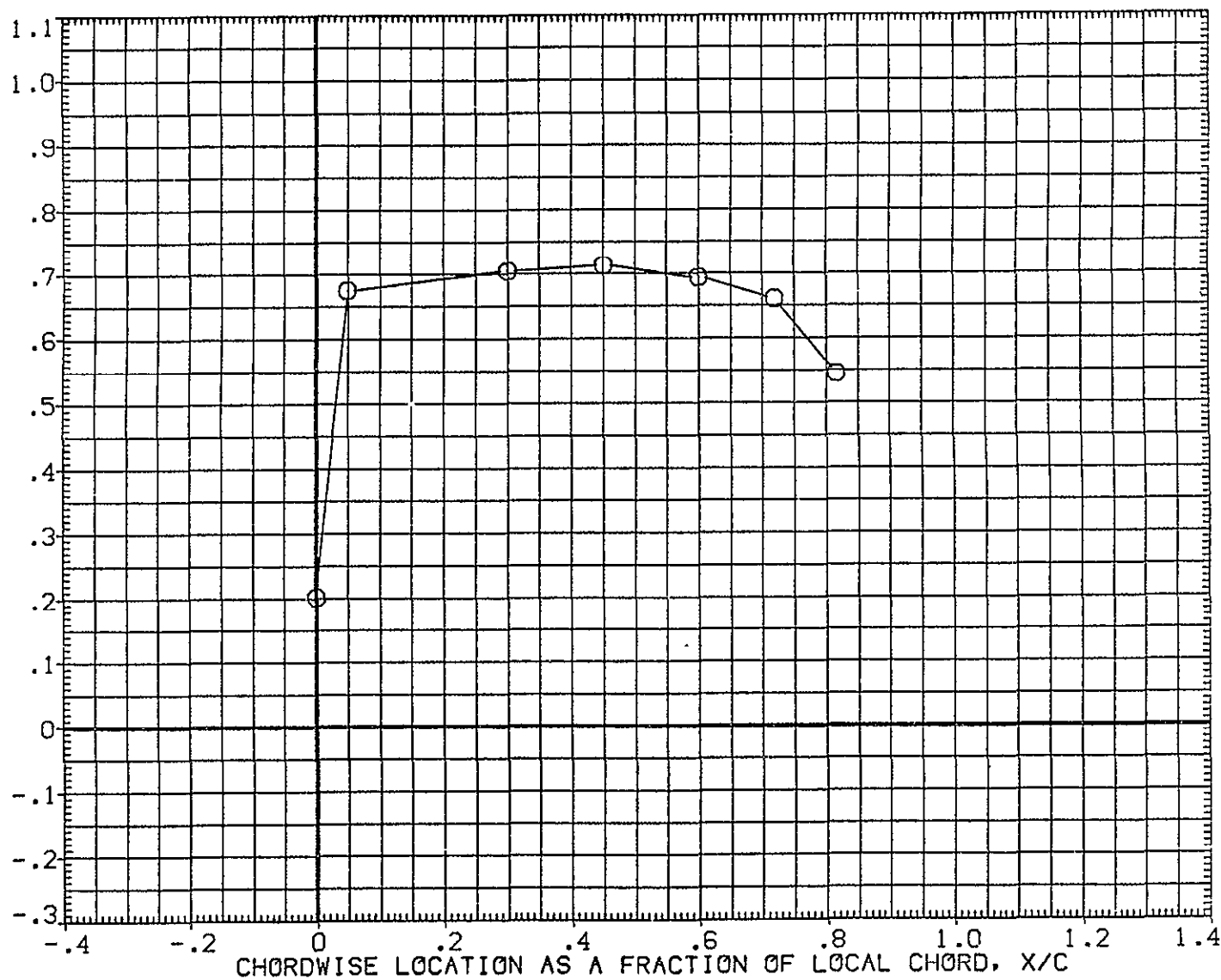


FIG. 5 WING LOWER SURFACE (LT)



# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZLO3)

SYMBOL  
 ○  
 ◇  
 □  
 △  
 ▽

ALPHA	2Y/B	MACH
19.694	.600	7.320
24.885		
29.811		
34.784		
39.947		
44.174		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

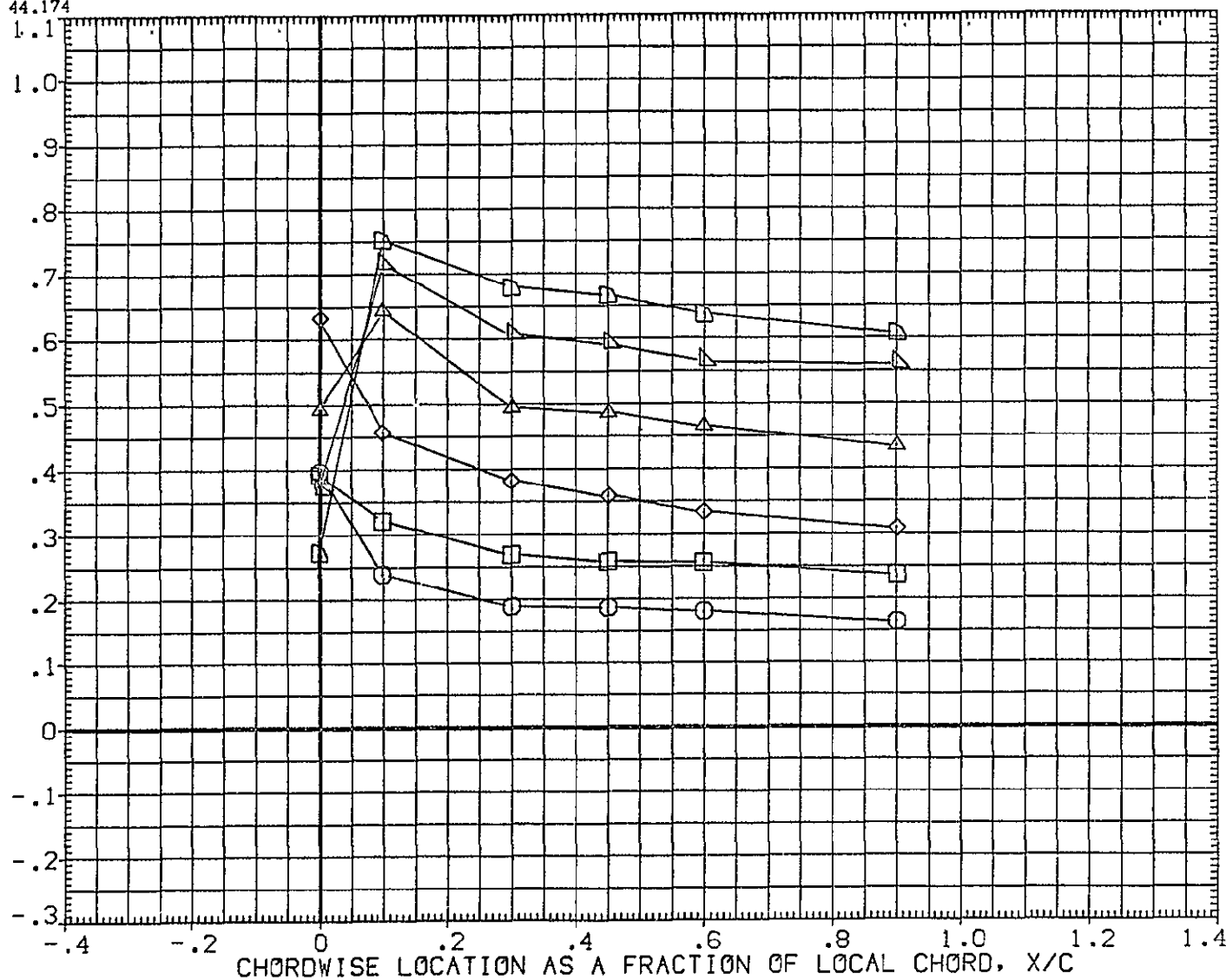


FIG. 5 WING LOWER SURFACE (LT)

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# ARC 3.5-198 CH38 140C ORB WING LOWER SURFACE(LT)(LEZLO3)

SYMBOL  
○

ALPHA  
48.803

2Y/B  
.600

MACH  
7.320

BETA  
ELEV~R  
BOFLAP

PARAMETRIC VALUES

.000 ELEV-L .117  
.000 SPDBRK .000  
.000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

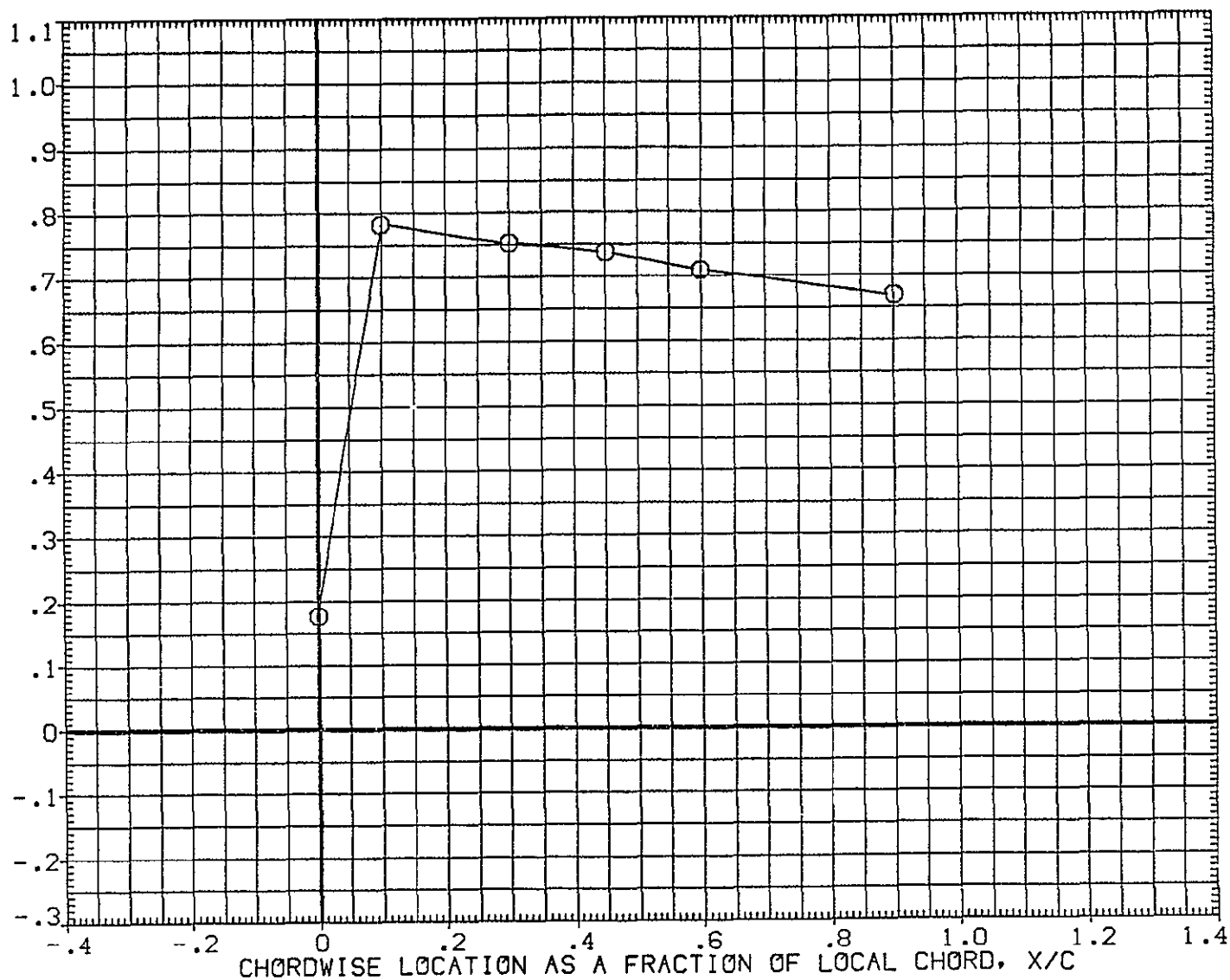


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO3)

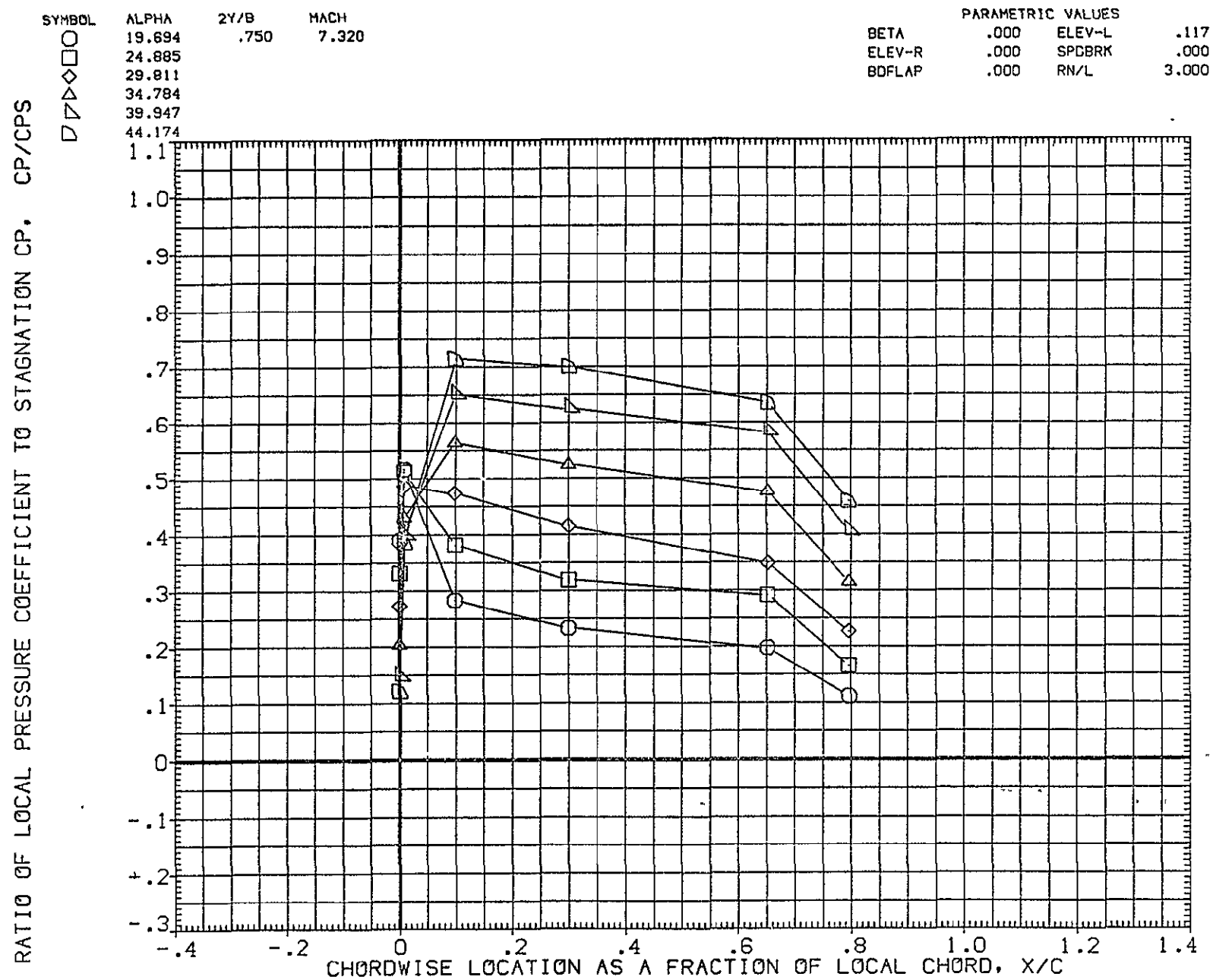


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0438 140C 0RB WING LOWER SURFACE(LT)(LEZLO3)

SYMBOL    ALPHA    2Y/B    MACH  
 O        48.603    .750    7.320

PARAMETRIC VALUES  
 BETA        .000    ELEV-L        .117  
 ELEV-R       .000    SPDBRK       .000  
 BDFLAP       .000    RN/L         3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

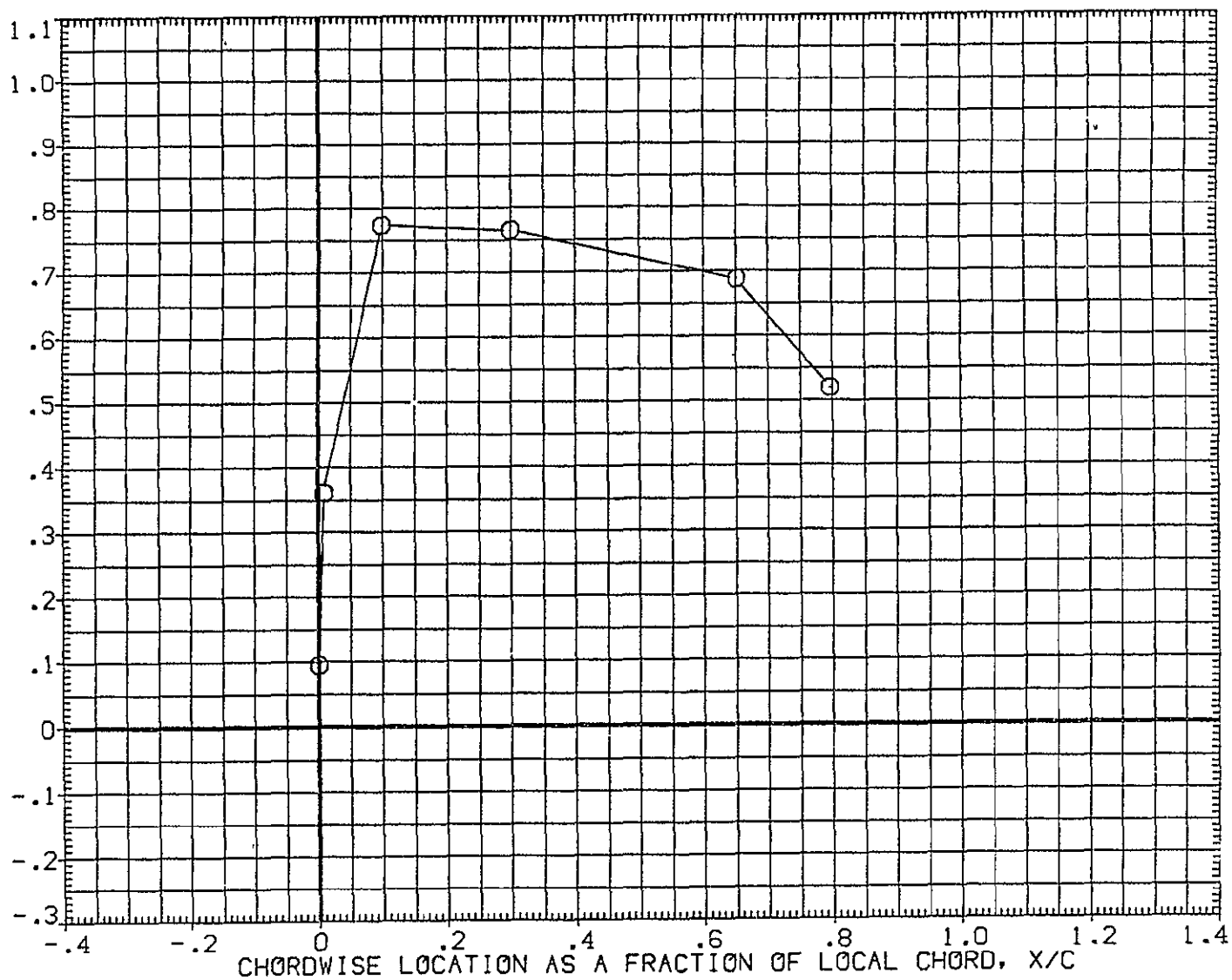


FIG. 5 WING LOWER SURFACE (LT)

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

SYMBOL  
○  
□  
◇  
△  
▽

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO3)

ALPHA  
19.694  
24.885  
29.811  
34.784  
39.947  
44.174

2Y/B  
.850

MACH  
7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L .117  
ELEV-R .000 SPDBRK .000  
BOFLAP .000 RN/L 3.000

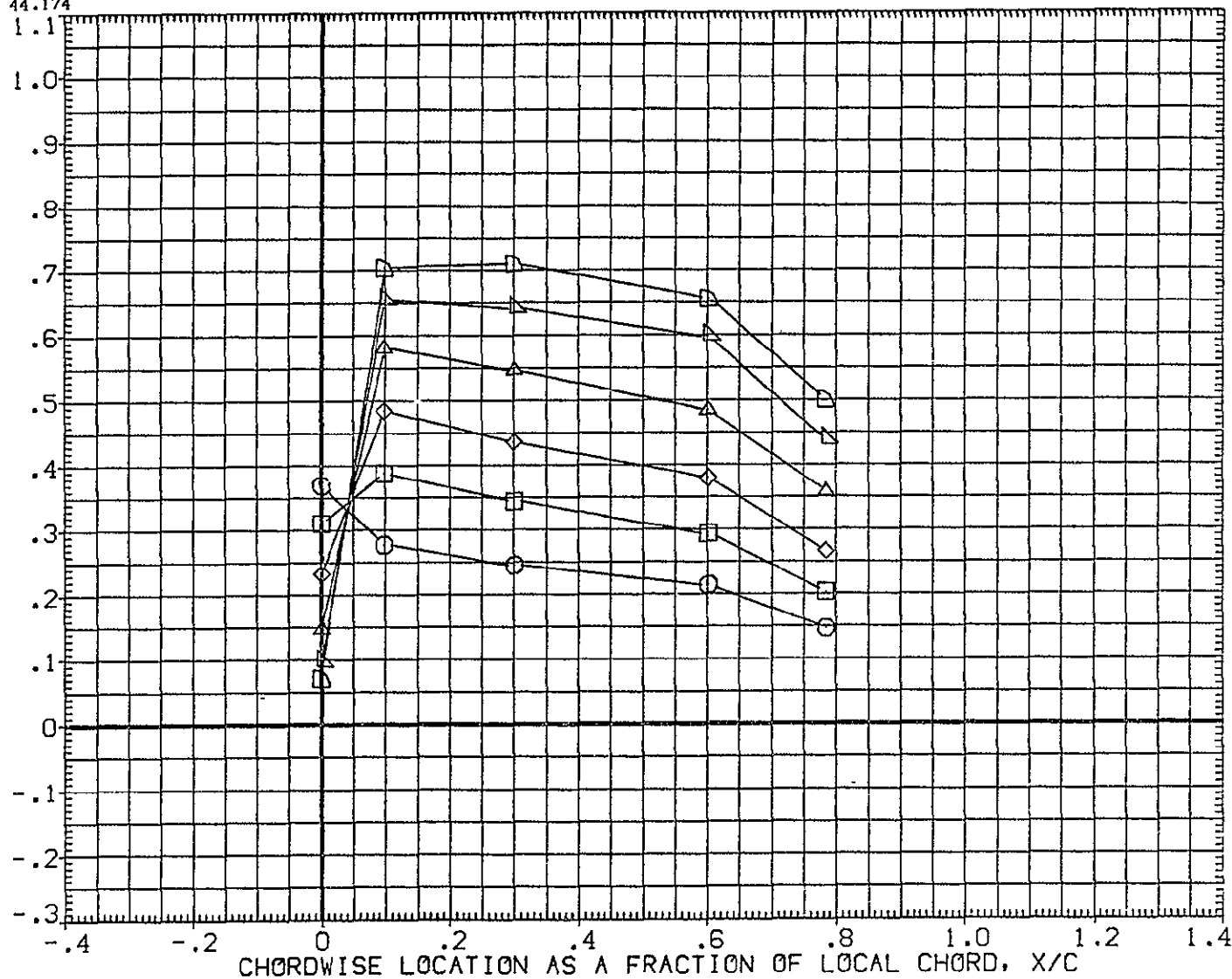


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL	ALPHA	2Y/B	MACH
○	48.803	.850	7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

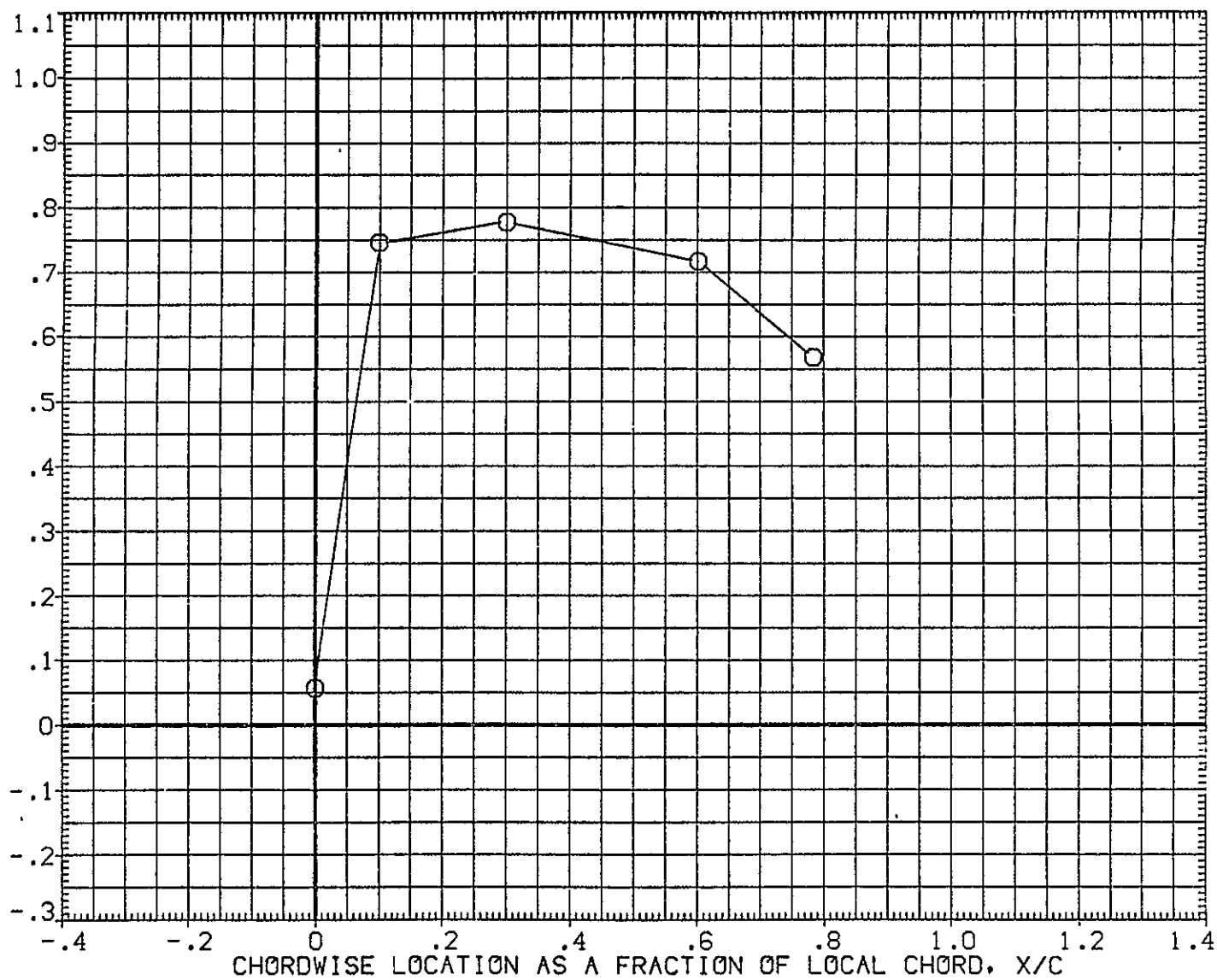


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZLO3)

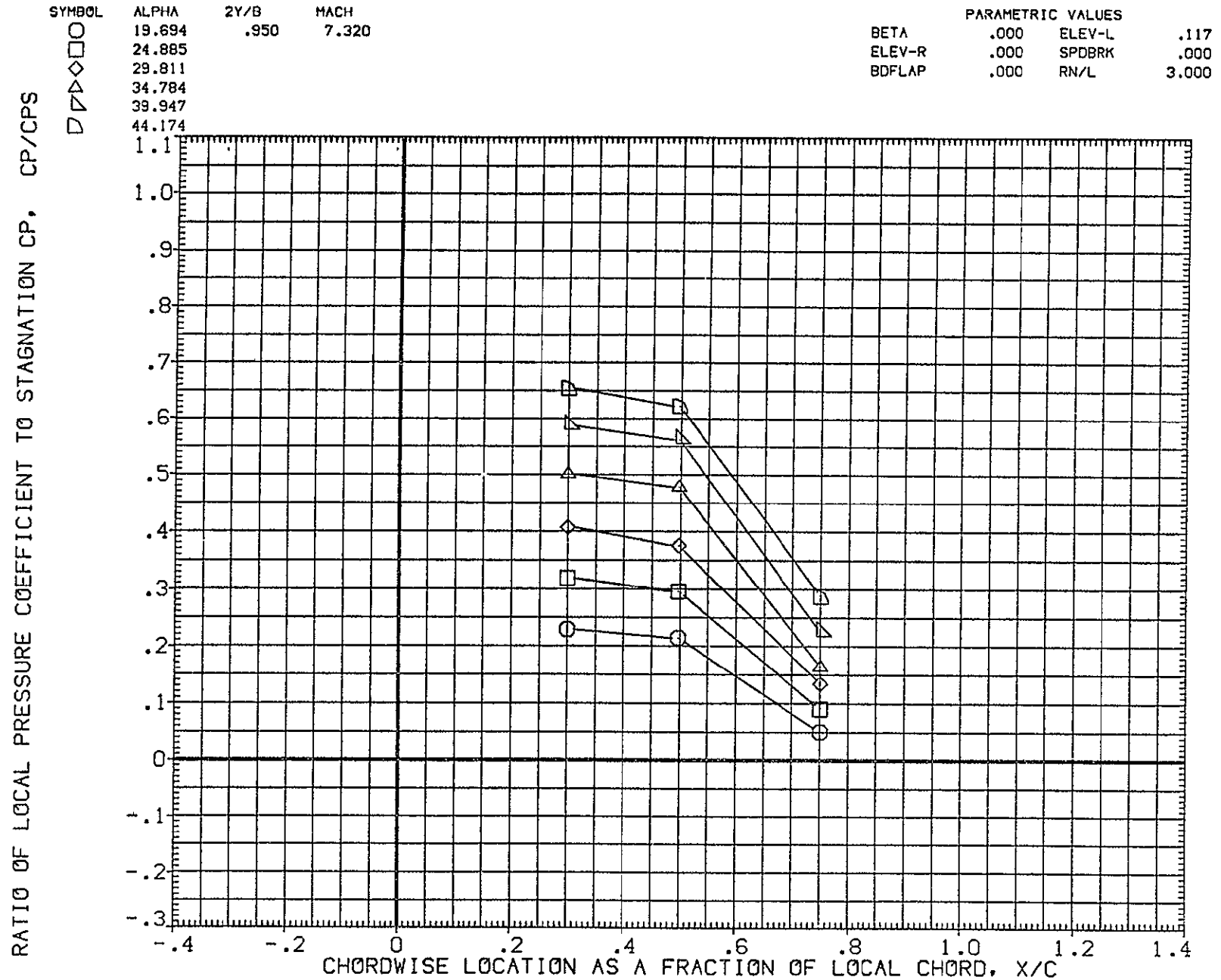


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL	ALPHA	2Y/B	MACH
○	48.803	.950	7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

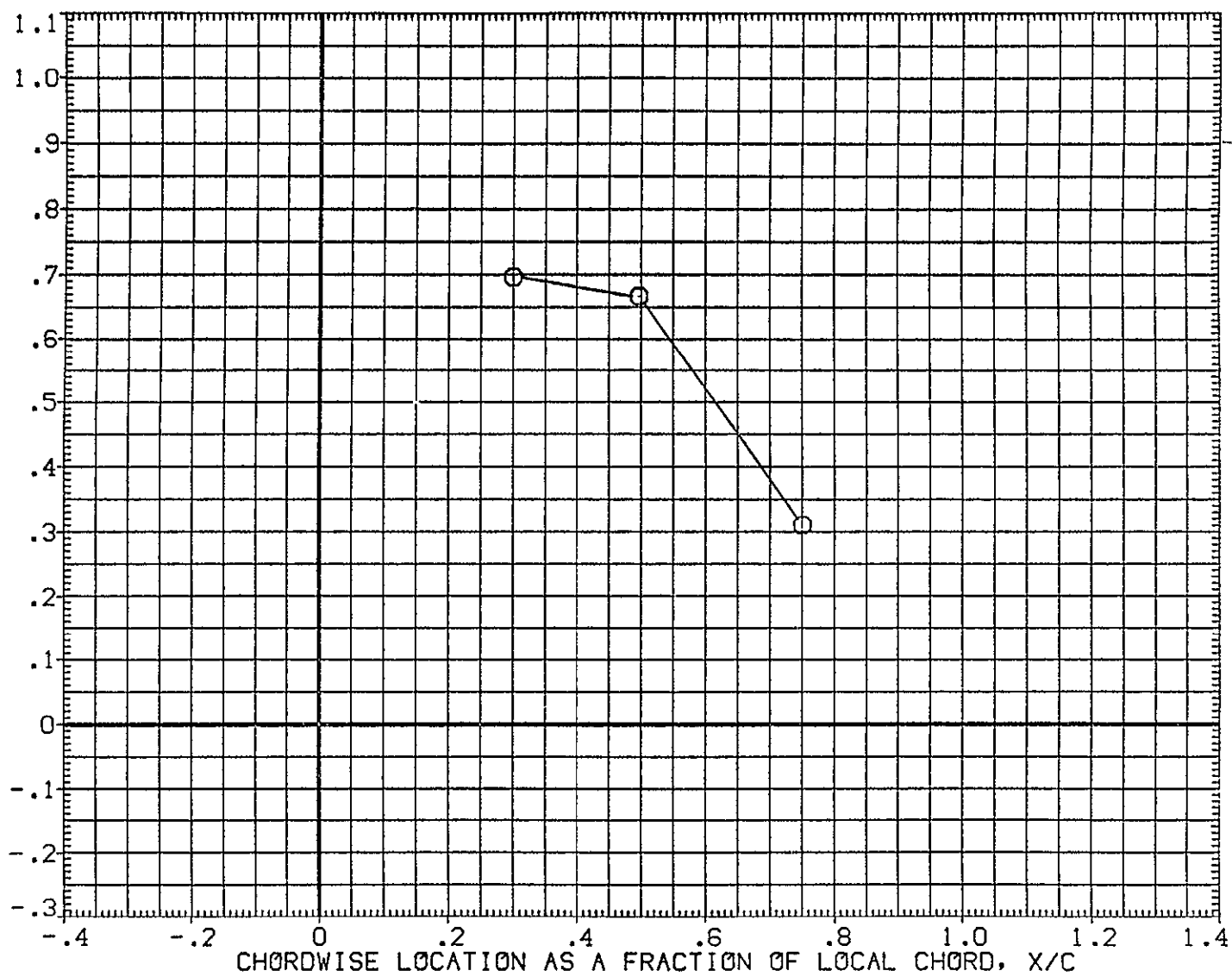


FIG. 5 WING LOWER SURFACE (LT)



# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO4)

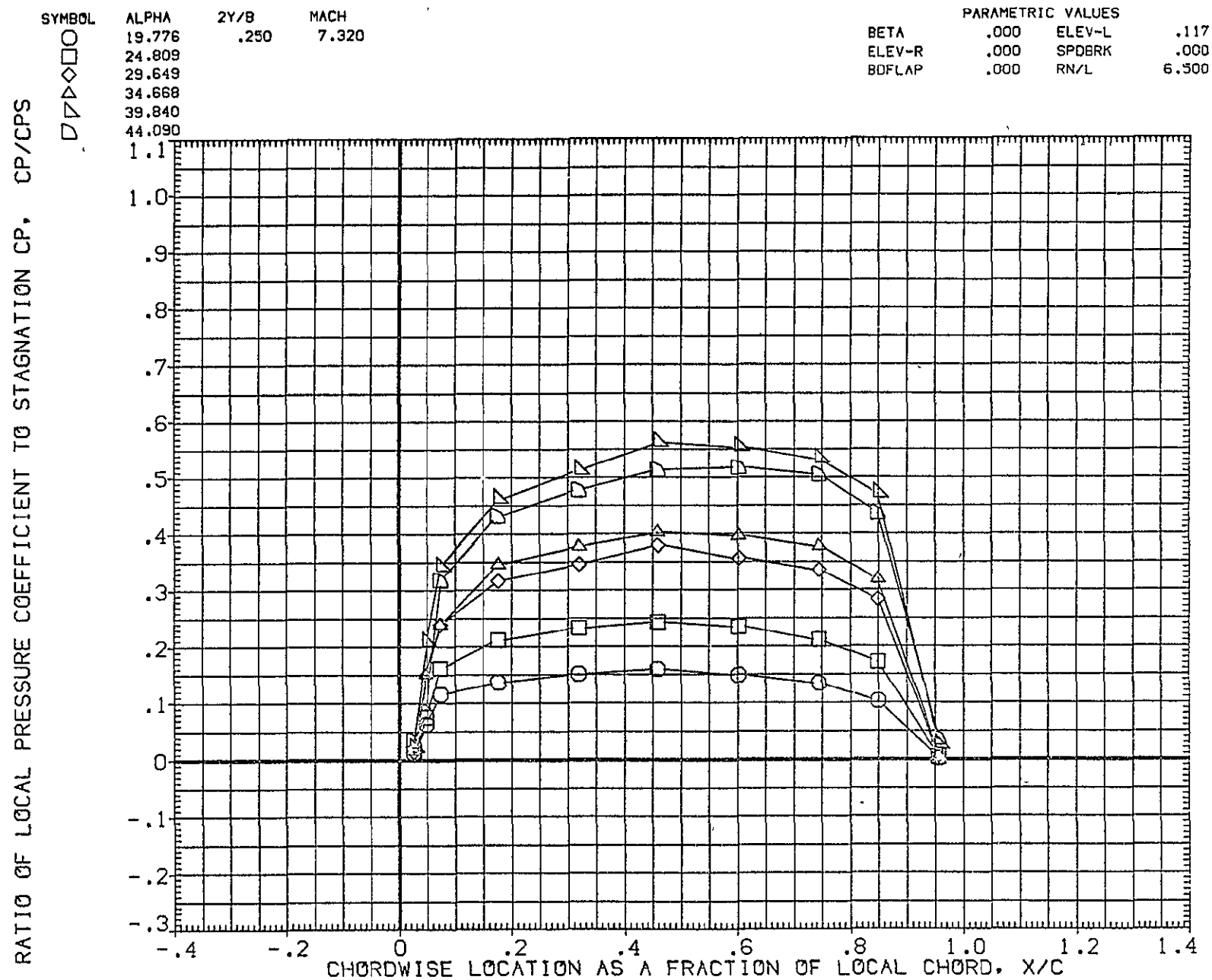


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO4)

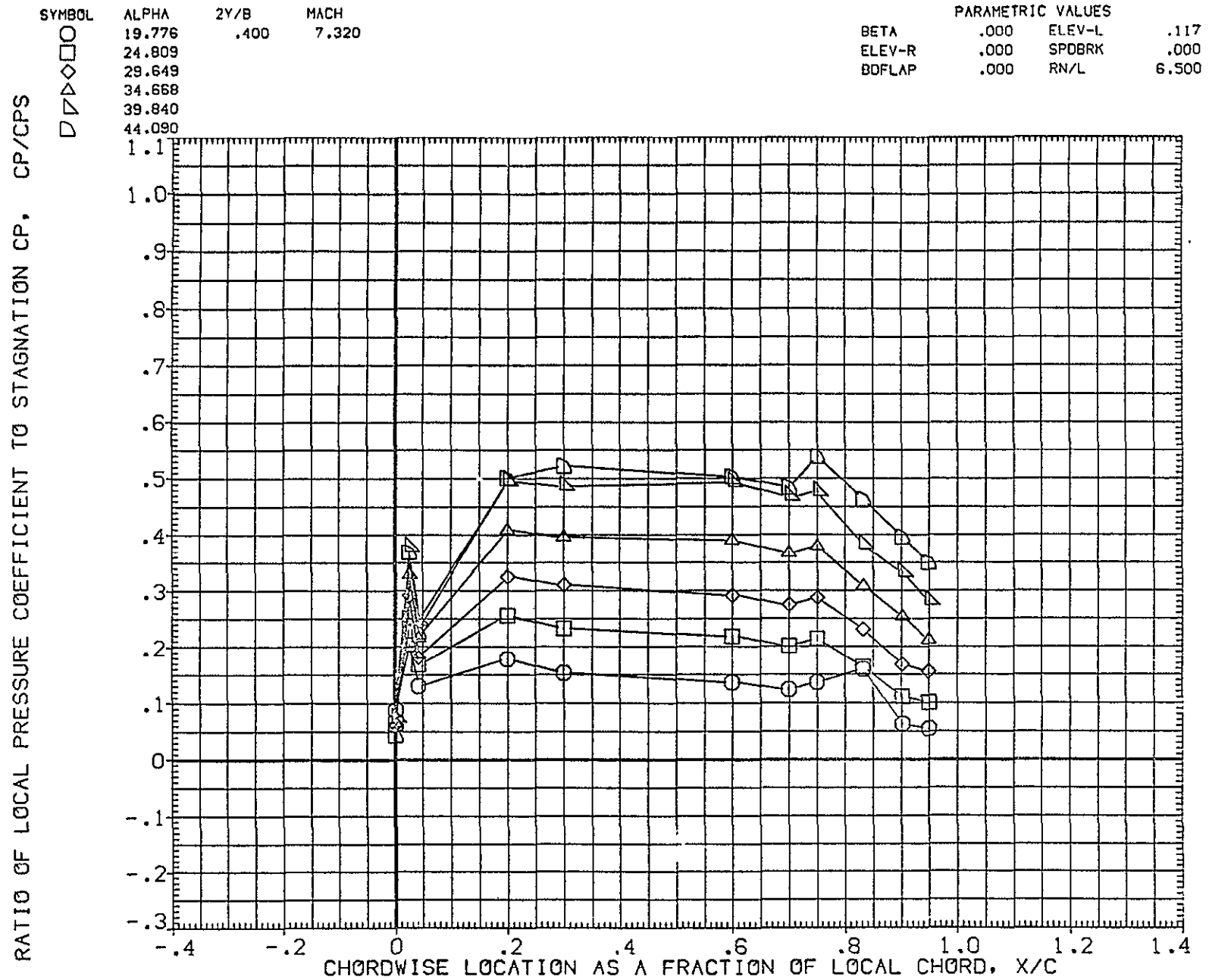


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO4)

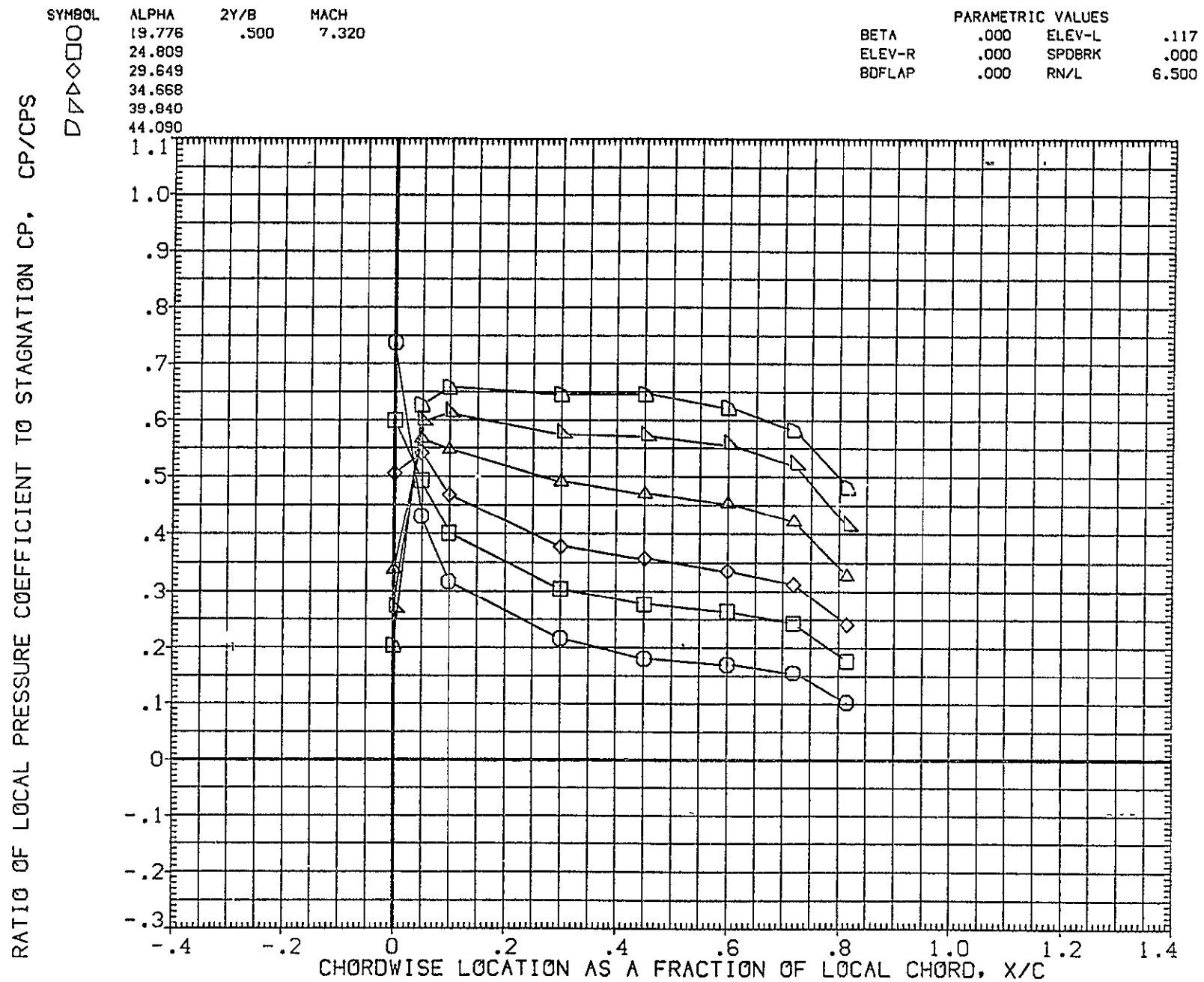


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○  
 ◇  
 △  
 ▽  
 □  
 ○

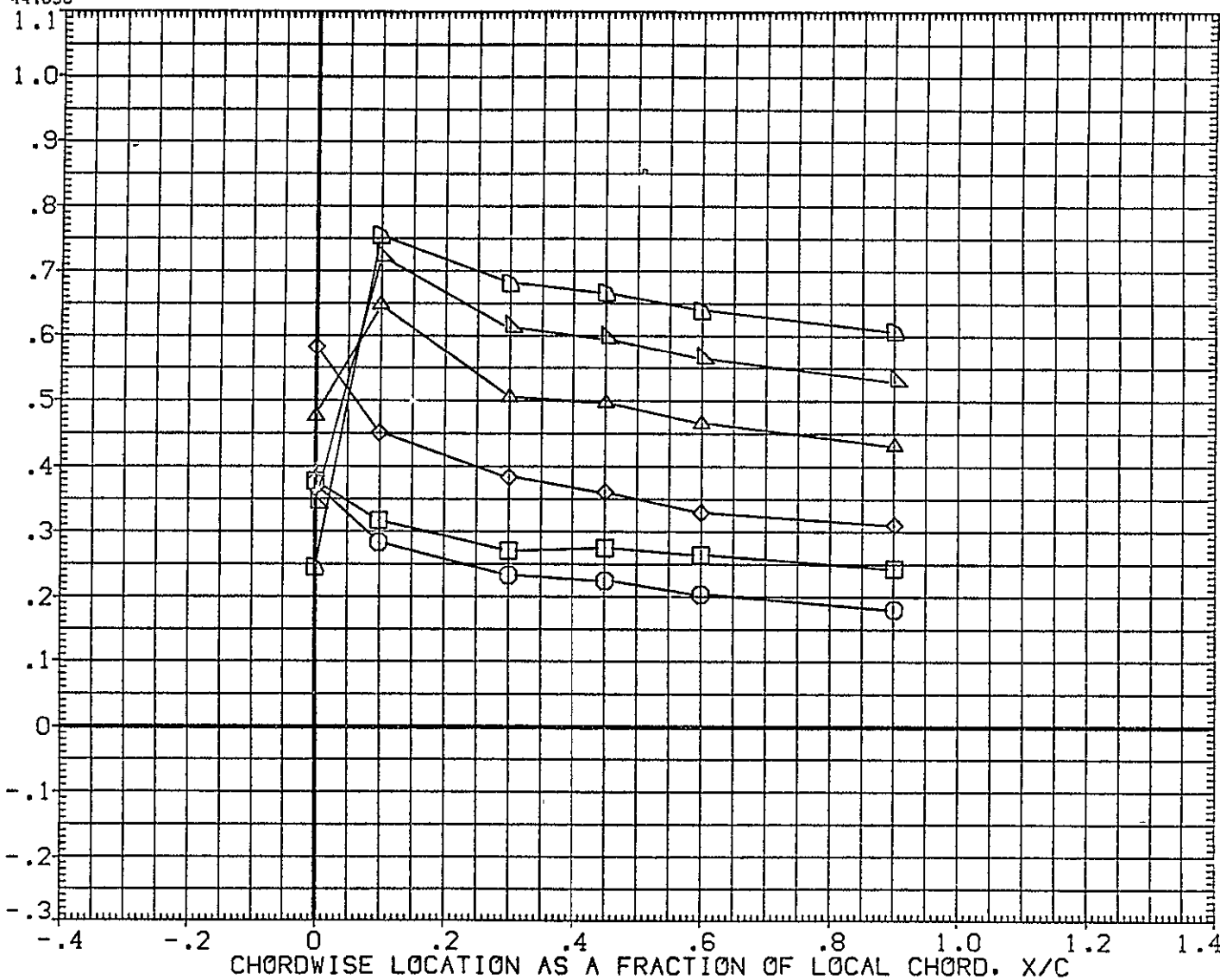


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL04)



FIG. 5 WING LOWER SURFACE (LT)



FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT) (LEZLO4)

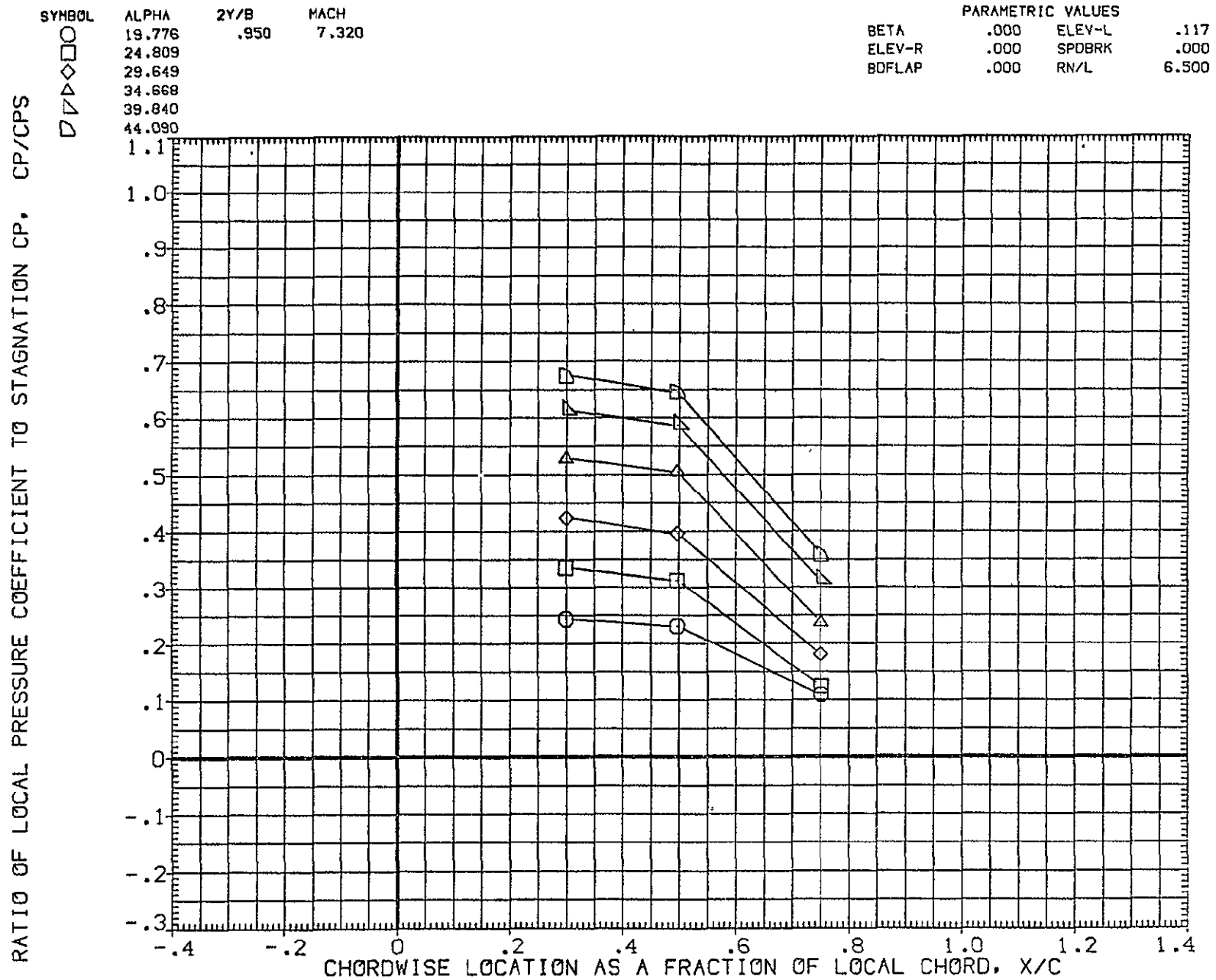


FIG. 5 WING LOWER SURFACE (LT)

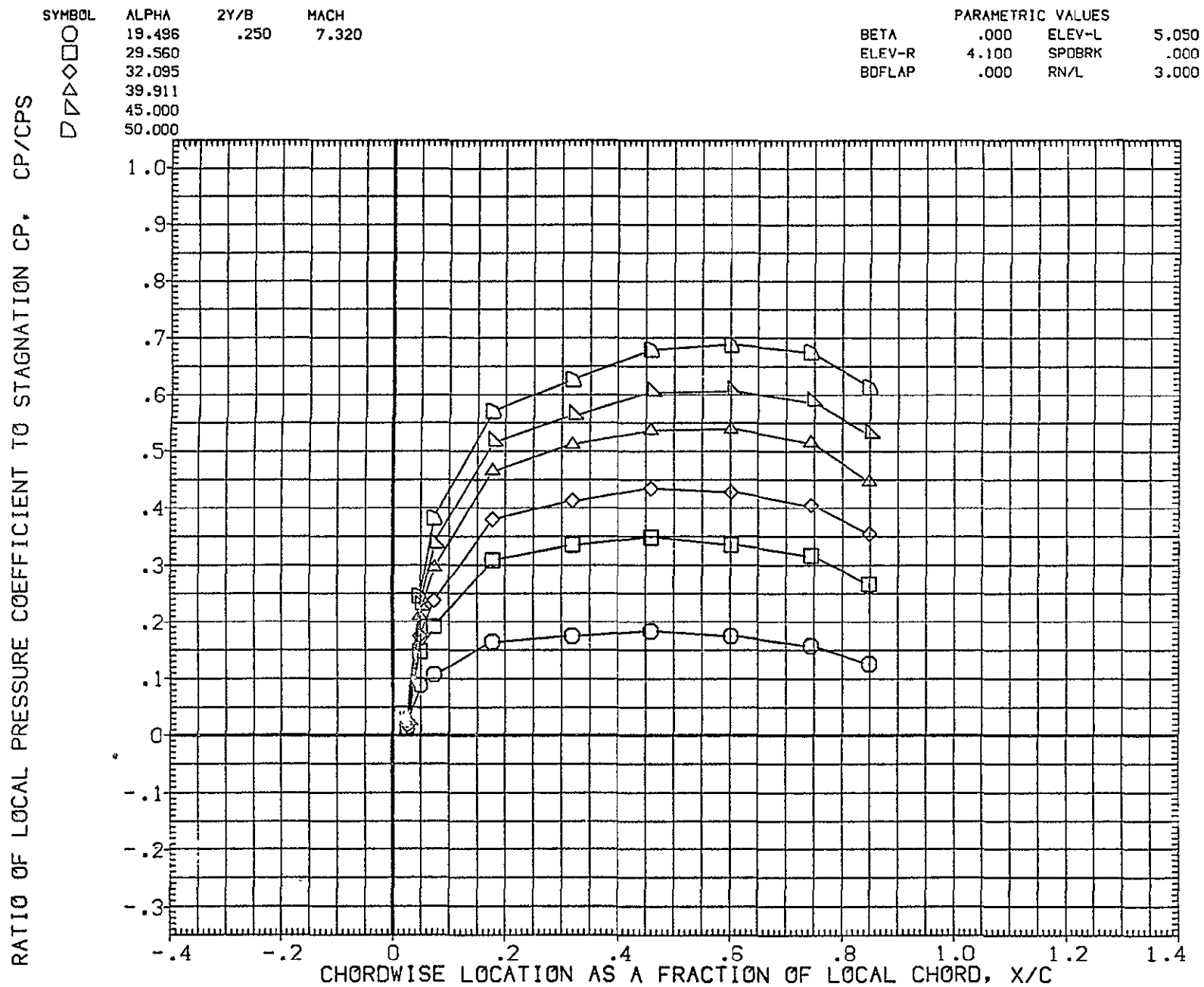


FIG. 5 WING LOWER SURFACE (LT)



# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZLO5)

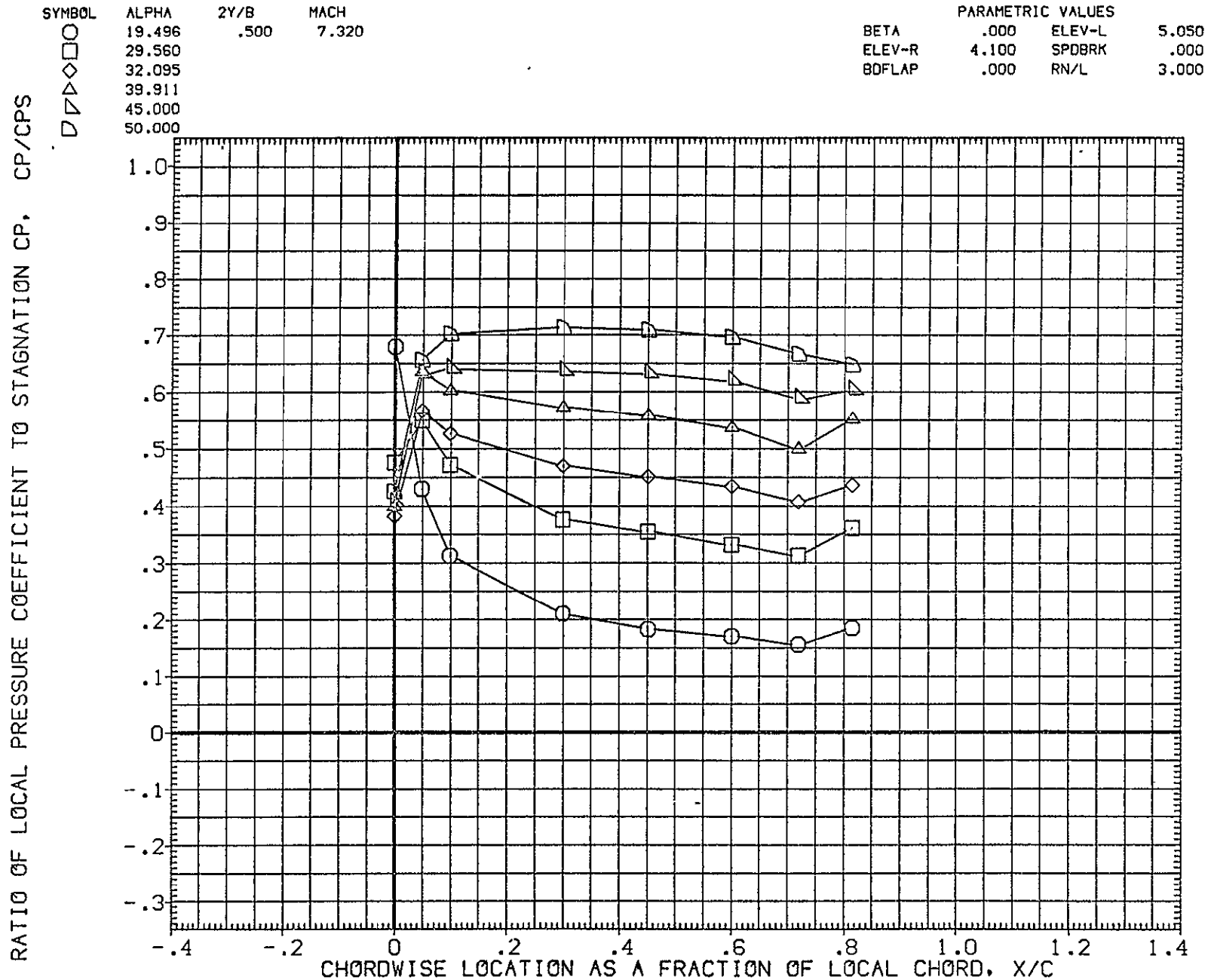


FIG. 5 WING LOWER SURFACE (LT)

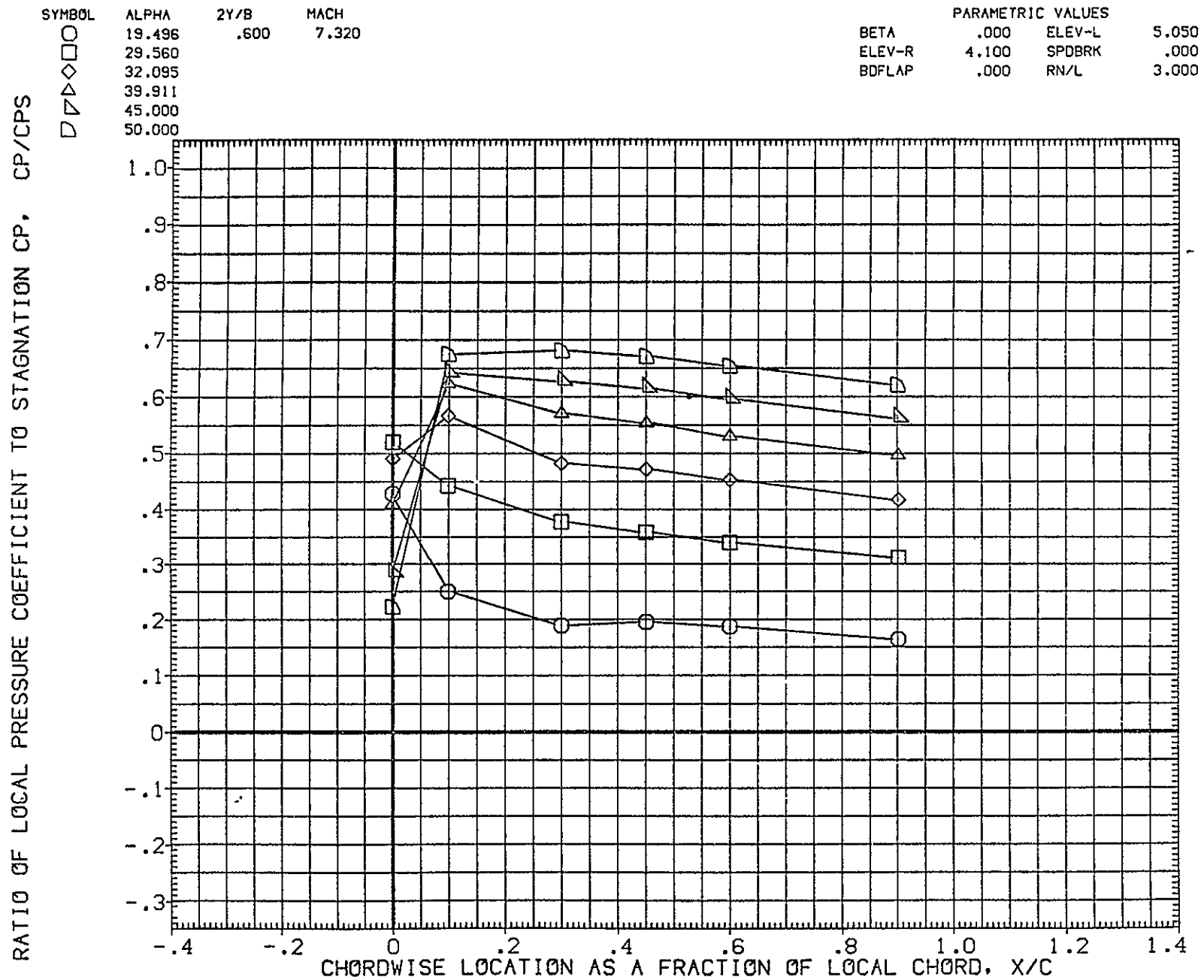


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL05)

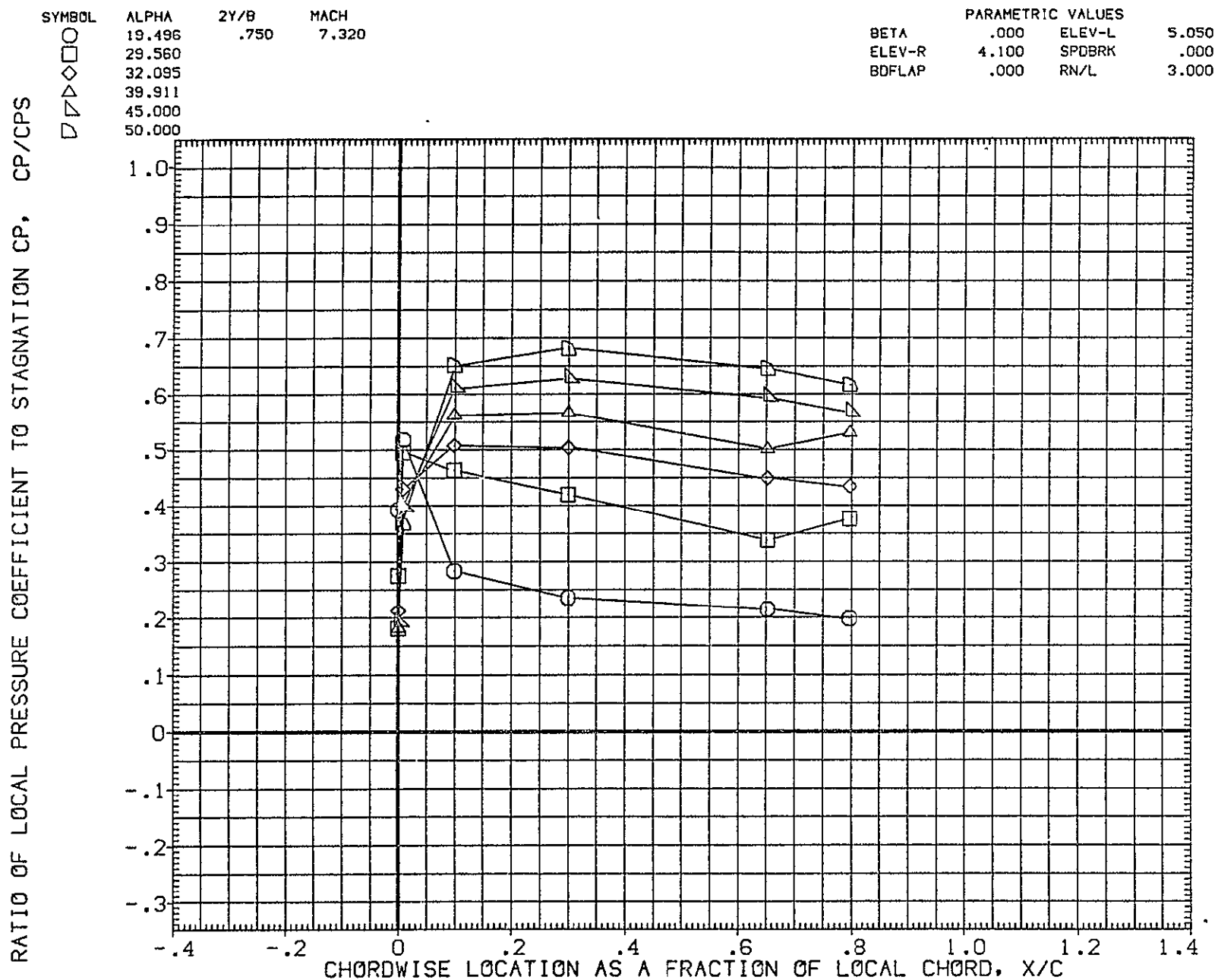


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZLO5)

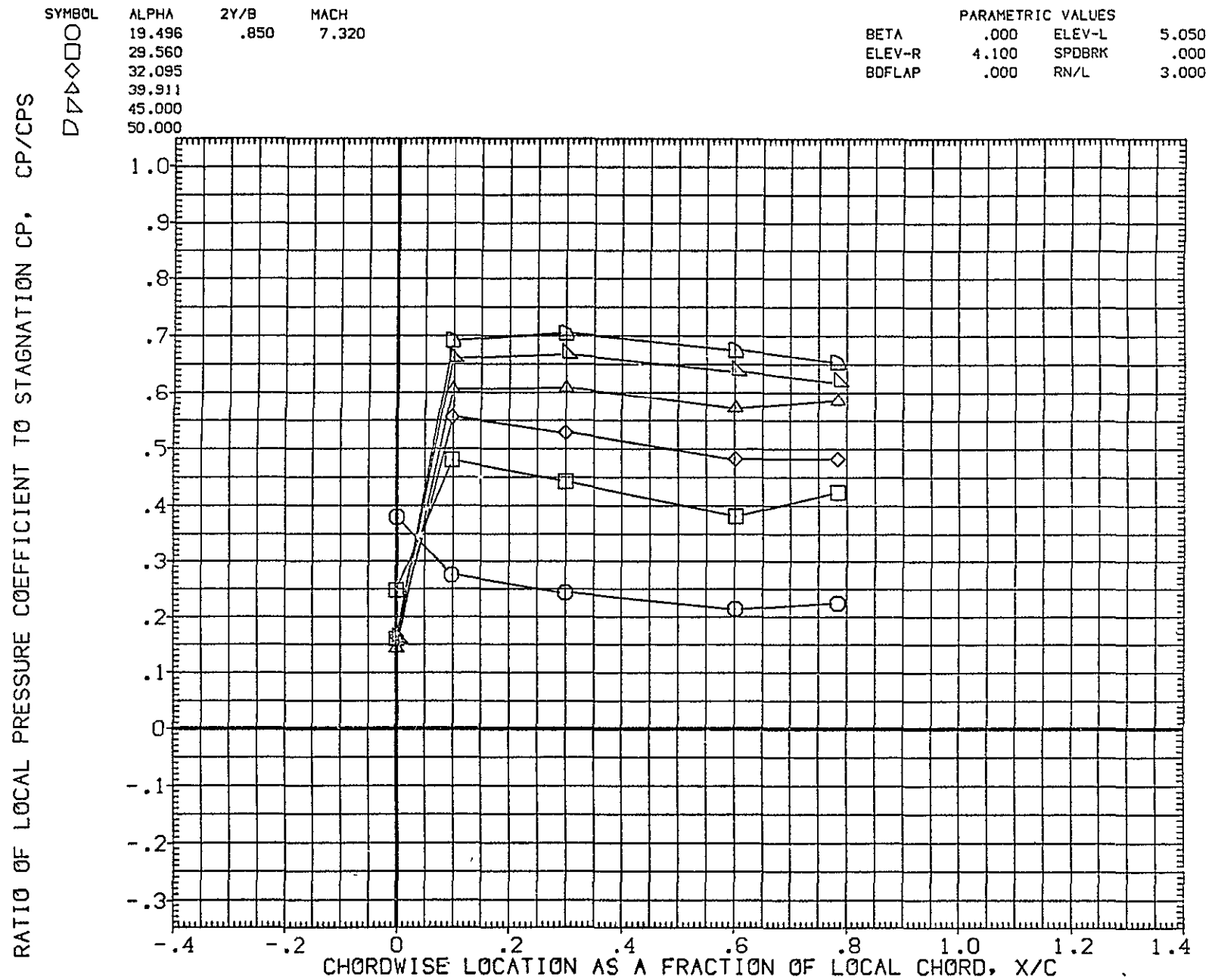


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO5)

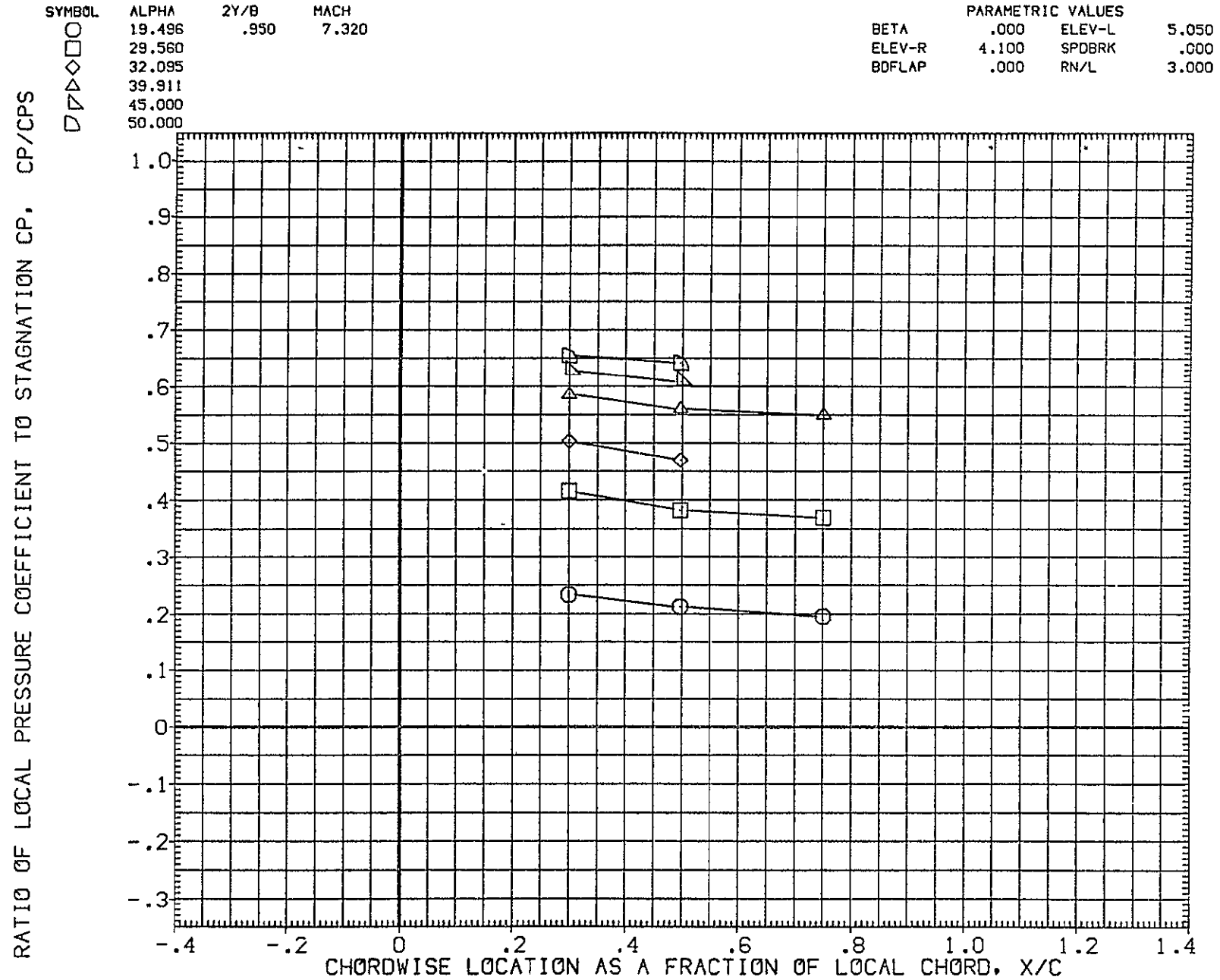


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

BETA

.000

ELEV-L

5.050

ELEV-R

4.100

SPOBRK

.000

BOFLAP

15.667

RN/L

3.000

19.132

.250

7.320

29.758

35.000

39.891

44.091

48.692

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\square$   $\square$   
 $\triangle$   $\triangle$   $\triangle$   $\triangle$   
 $\square$   $\square$   $\square$   $\square$

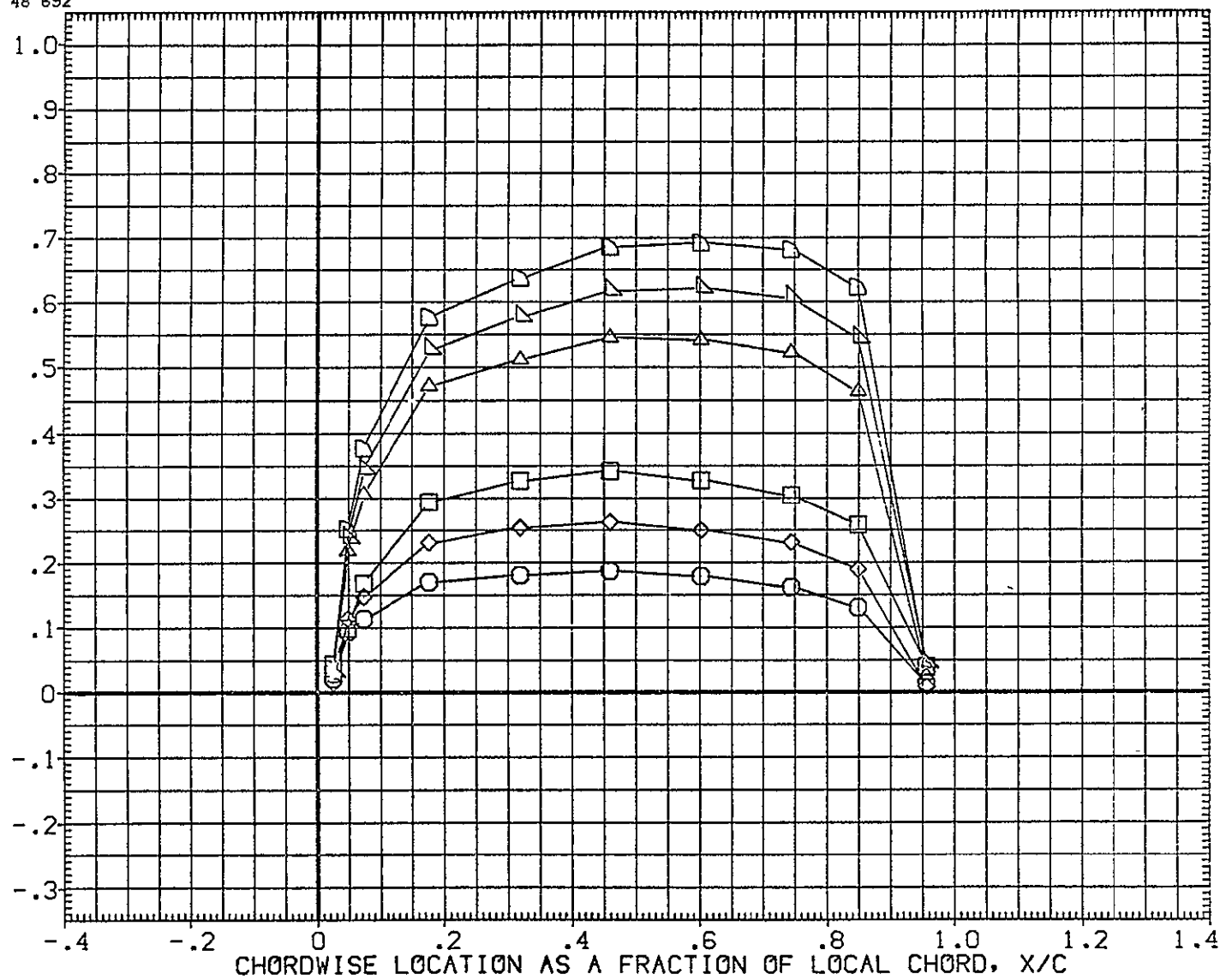


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL07)

SYMBOL  
 ○  
 □  
 ◇  
 △  
 ▽  
 ▢

ALPHA  
 19.132  
 29.758  
 35.000  
 39.891  
 44.091  
 48.692

2Y/B  
 .500

MACH  
 7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

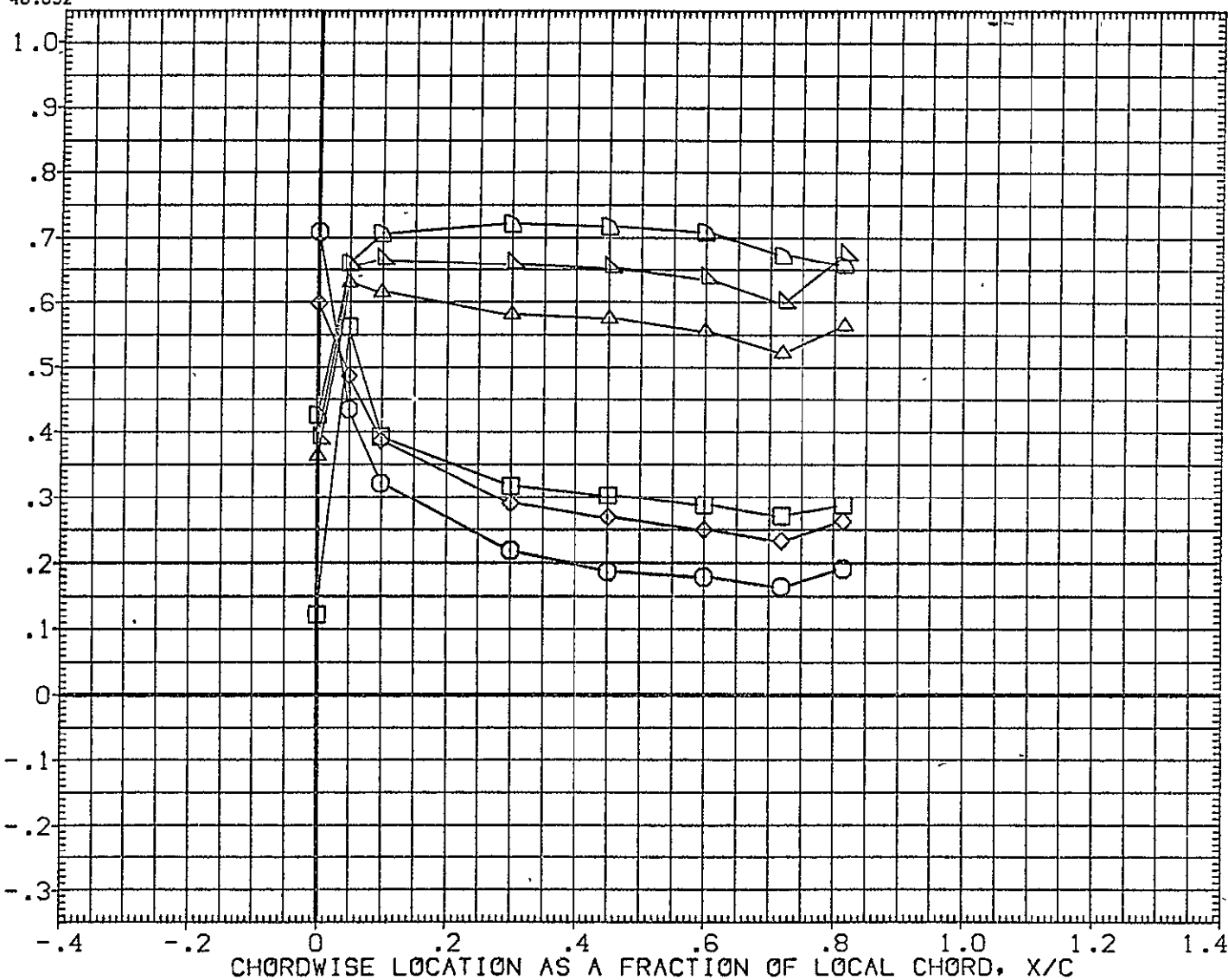


FIG. 5 WING LOWER SURFACE (LT)

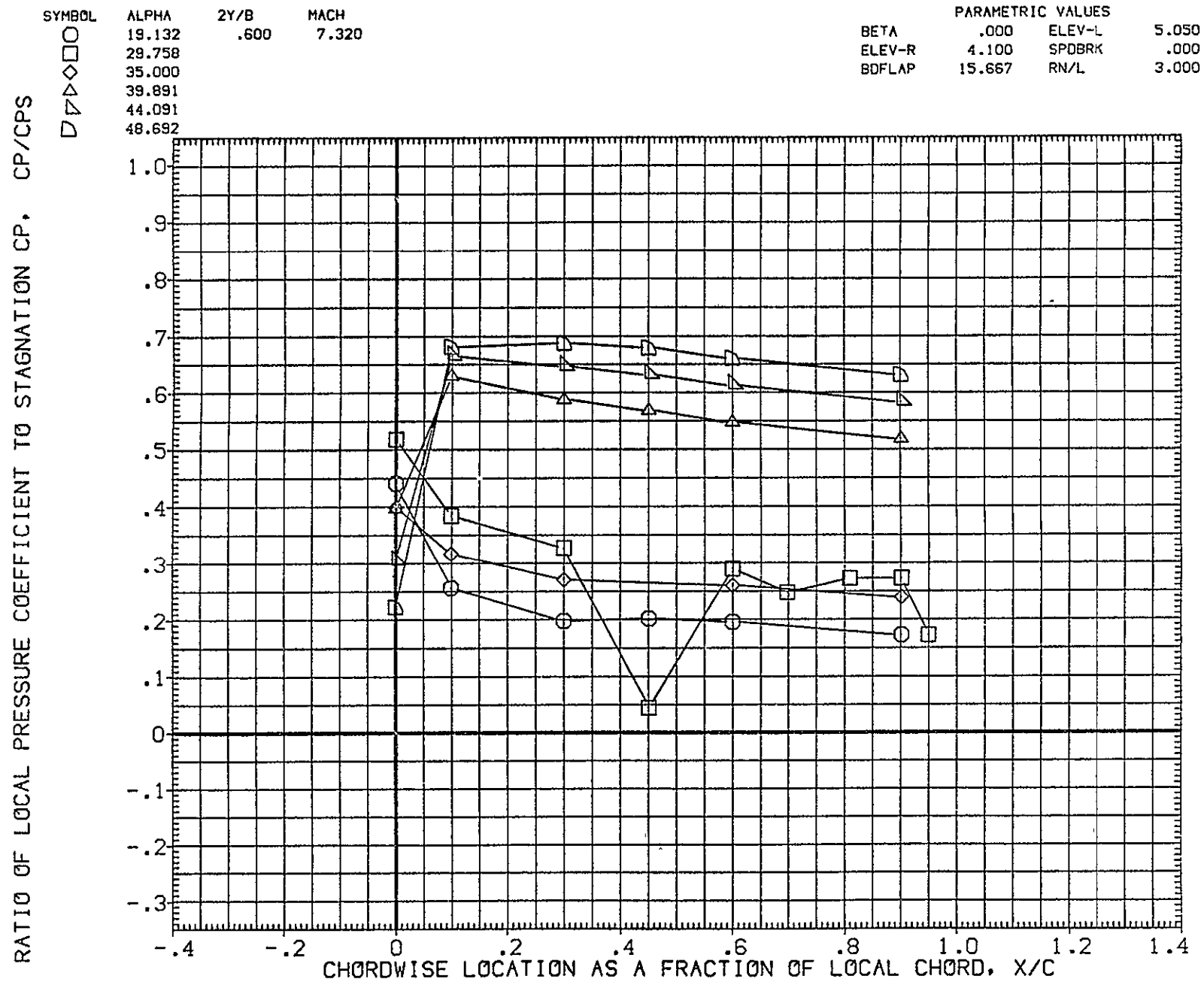


FIG. 5 WING LOWER SURFACE (LT)



ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZLO7)

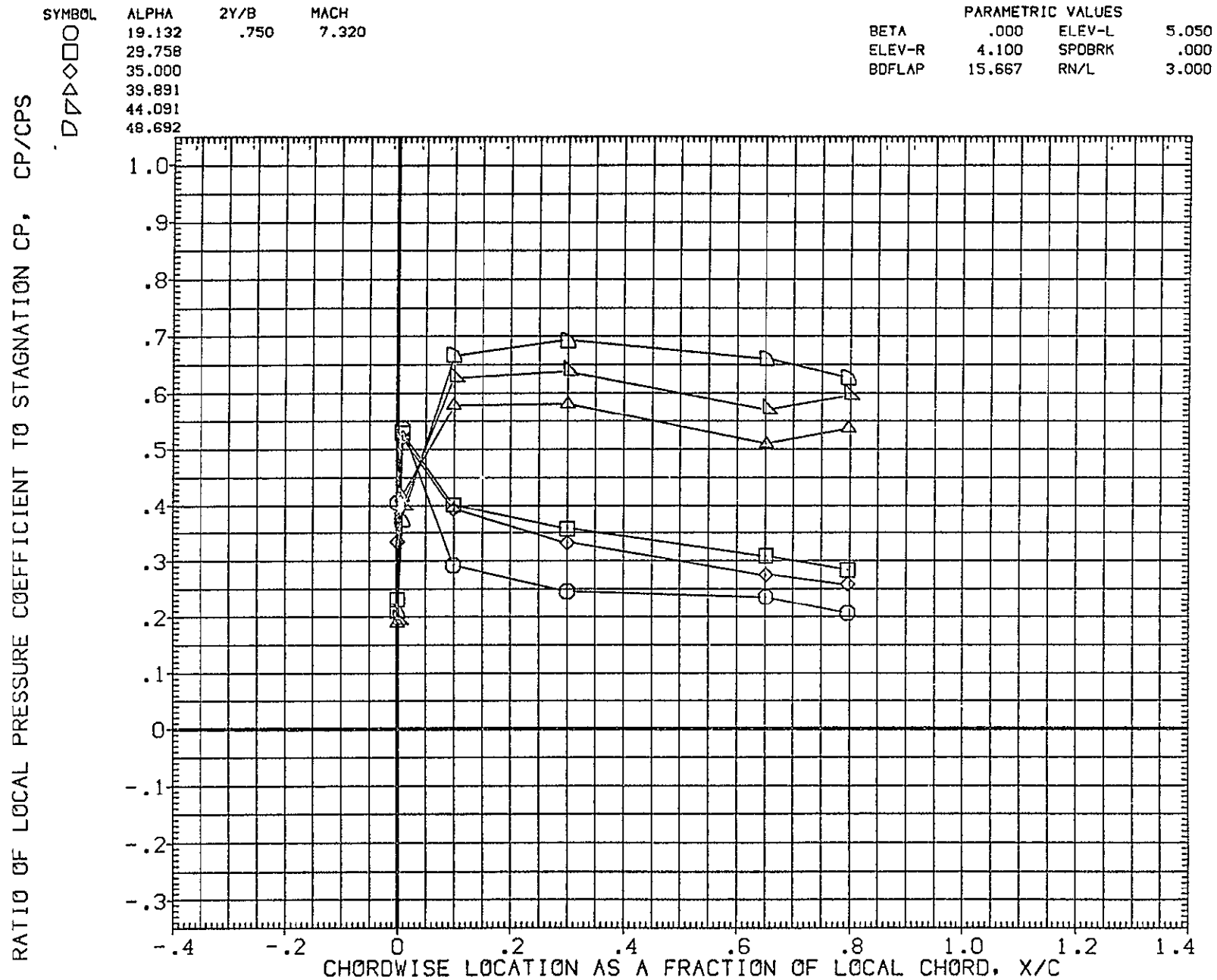


FIG. 5 WING LOWER SURFACE (LT)

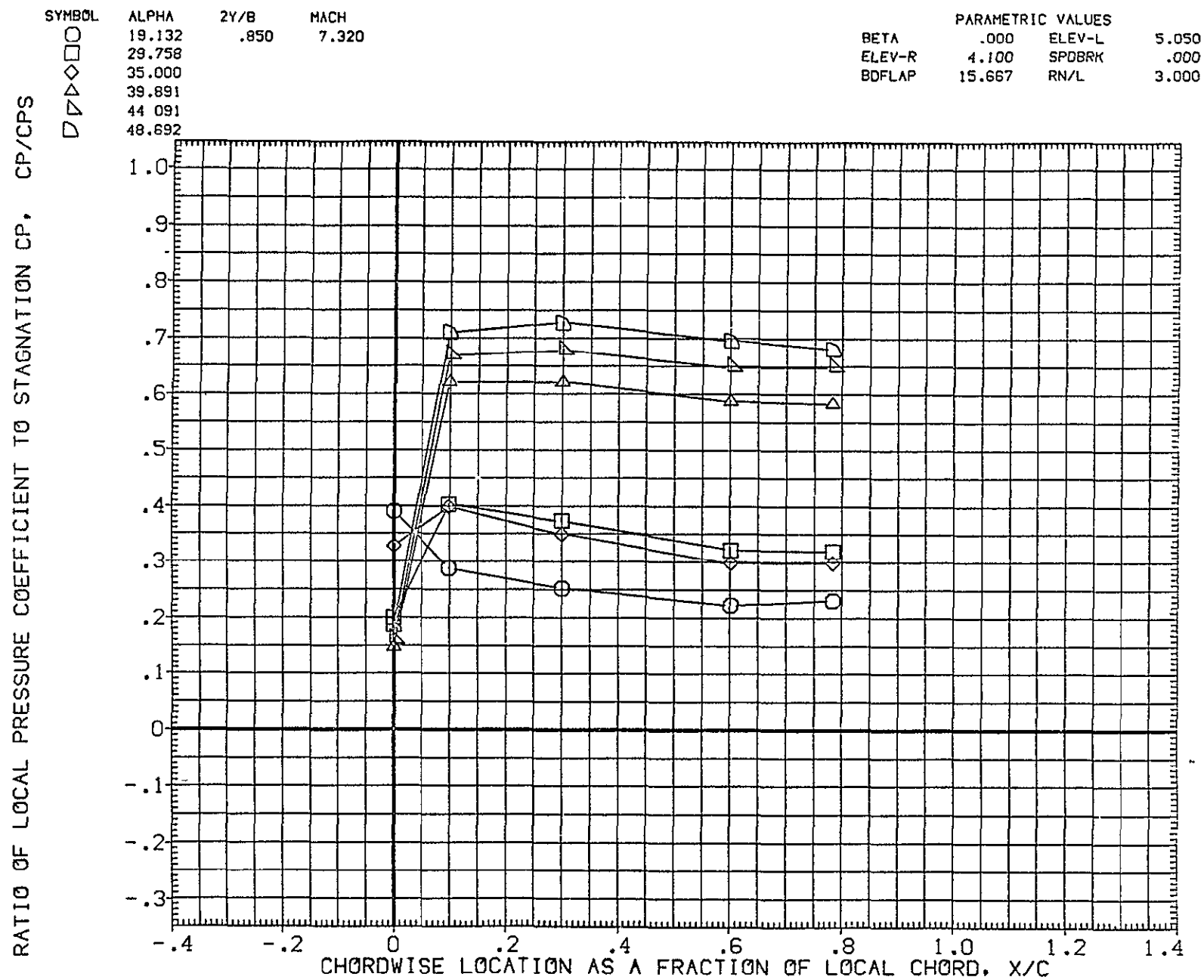


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZLO7)

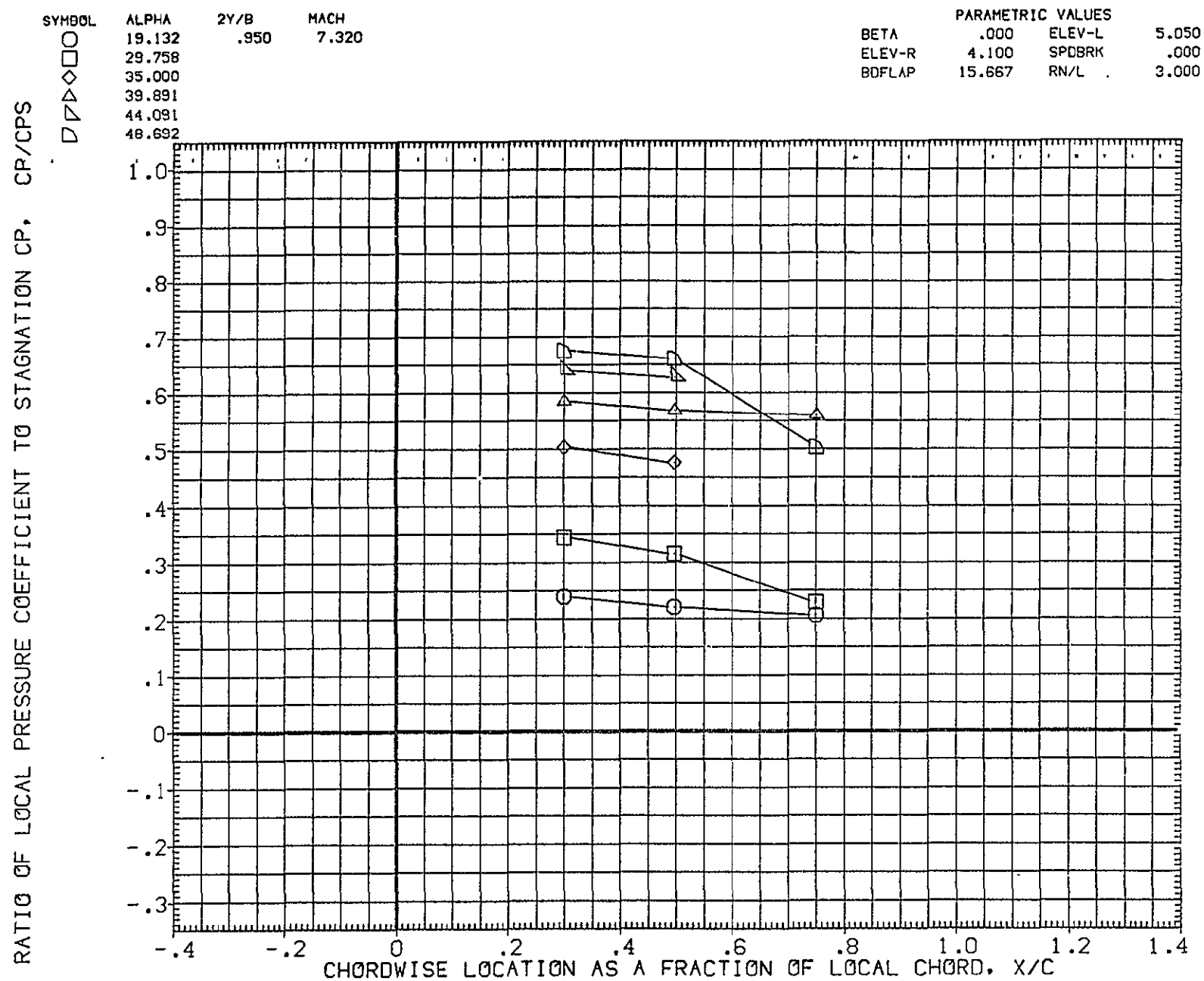


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ALPHA

2Y/B

MACH

BETA

PARAMETRIC VALUES

19.441

.250

7.320

.000

ELEV-L

10.000

25.000

ELEV-R

9.100

SPDBRK

.000

29.674

BDFLAP

.000

RN/L

3.000

34.627

39.946

44.081

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\triangle$   $\square$   $\square$   $\square$

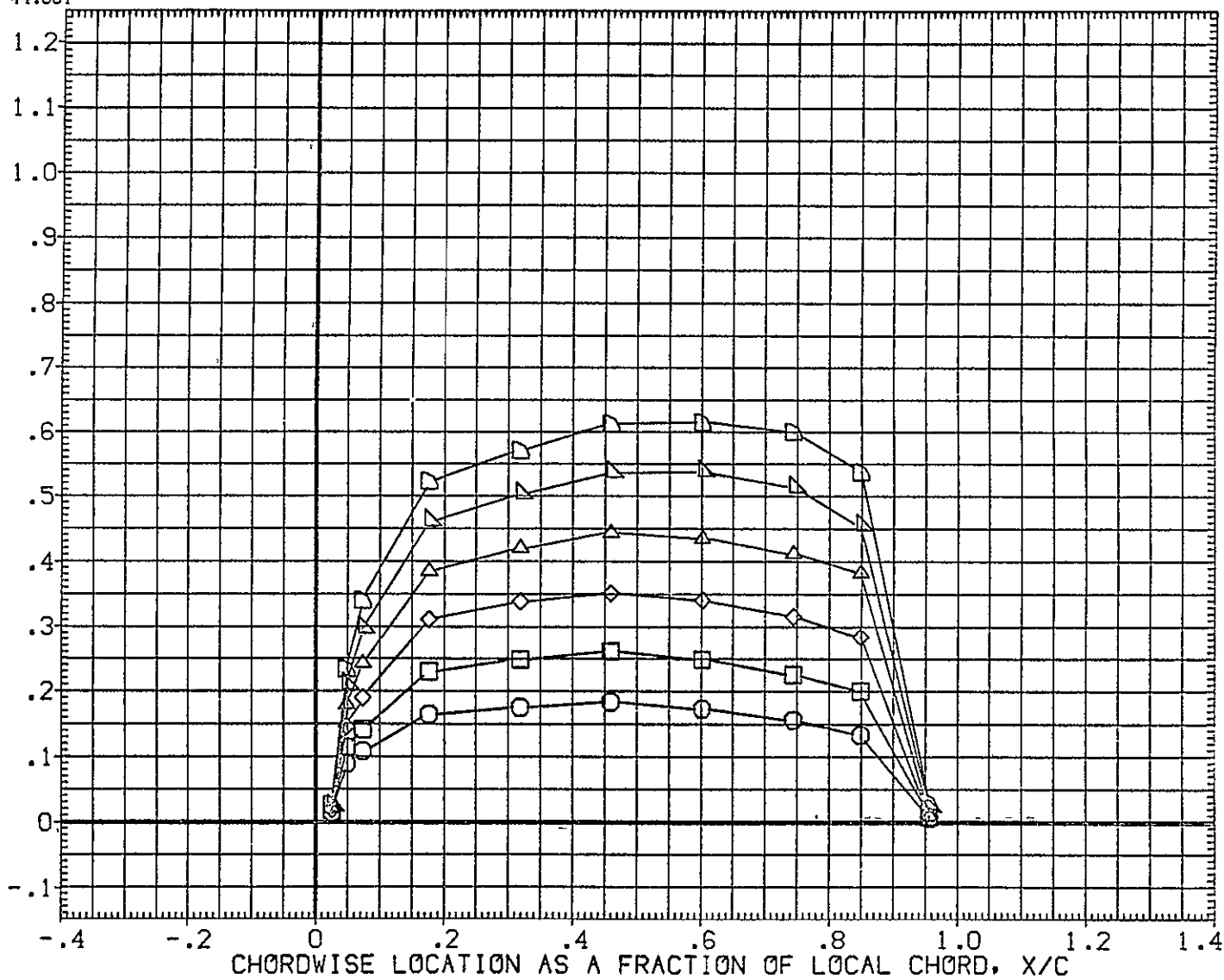


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL11)

SYMBOL    ALPHA    2Y/B    MACH  
 O        48.676    .250    7.320

PARAMETRIC VALUES  
 BETA        .000    ELEV-L    10.000  
 ELEV-R      9.100    SPDBRK    .000  
 BOFLAP      .000    RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

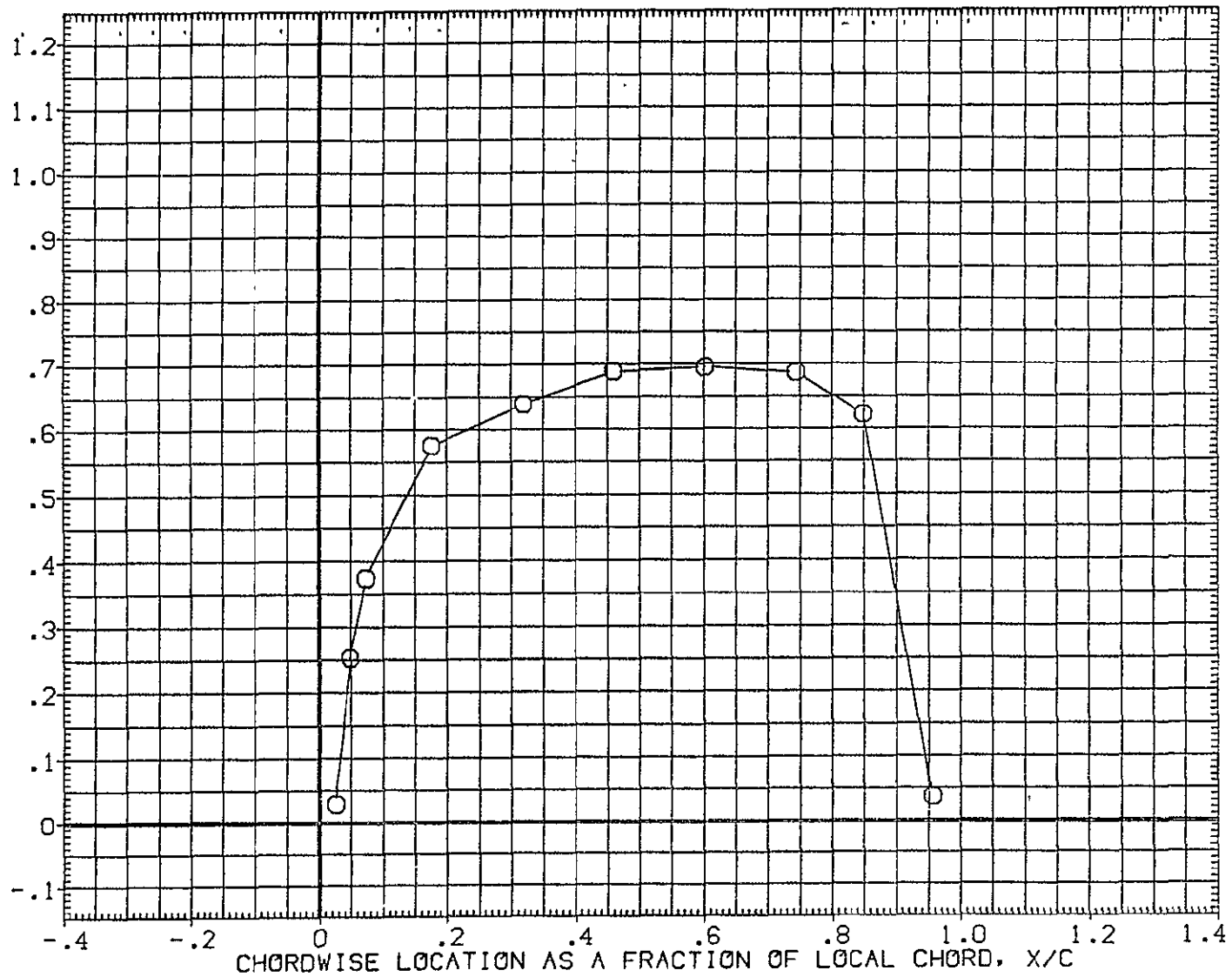


FIG. 5 WING LOWER SURFACE (LT)

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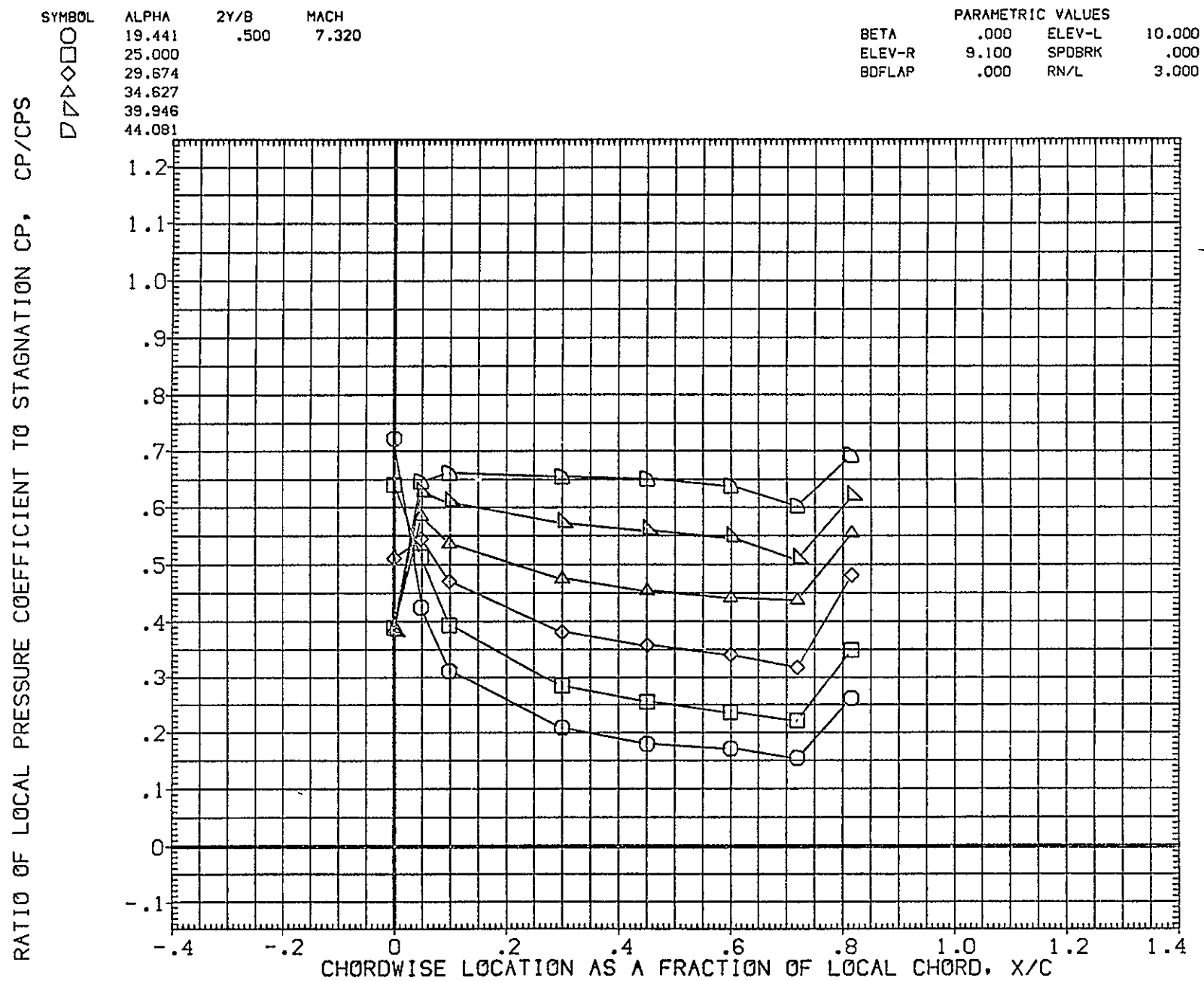


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL11)

SYMBOL    ALPHA    2Y/B    MACH  
 O        48.676    .500    7.320

PARAMETRIC VALUES  
 BETA        .000    ELEV-L    10.000  
 ELEV-R    9.100    SPDBRK    .000  
 BDFLAP    .000    RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

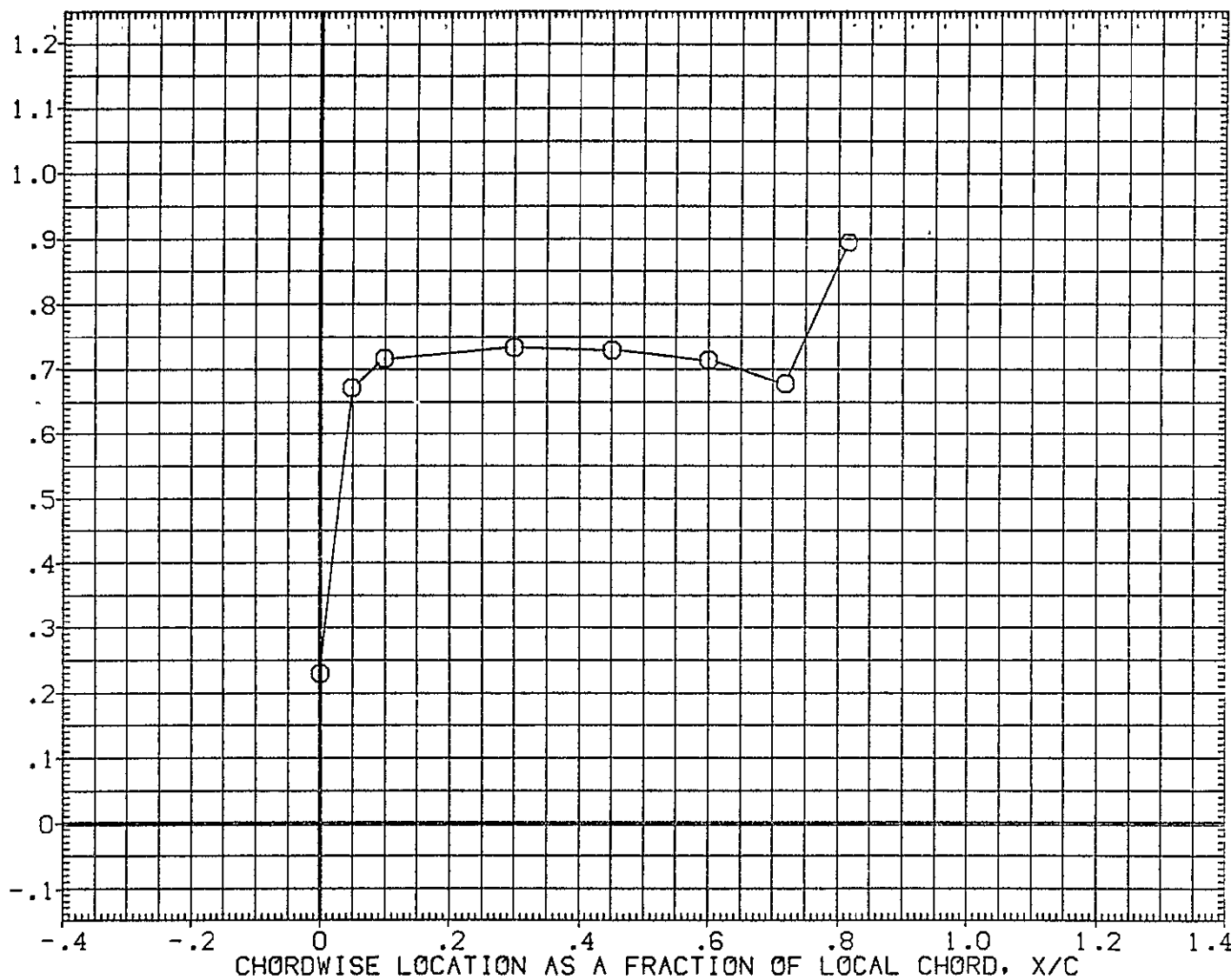


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

19.441  
25.000  
29.674  
34.627  
39.946  
44.081

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

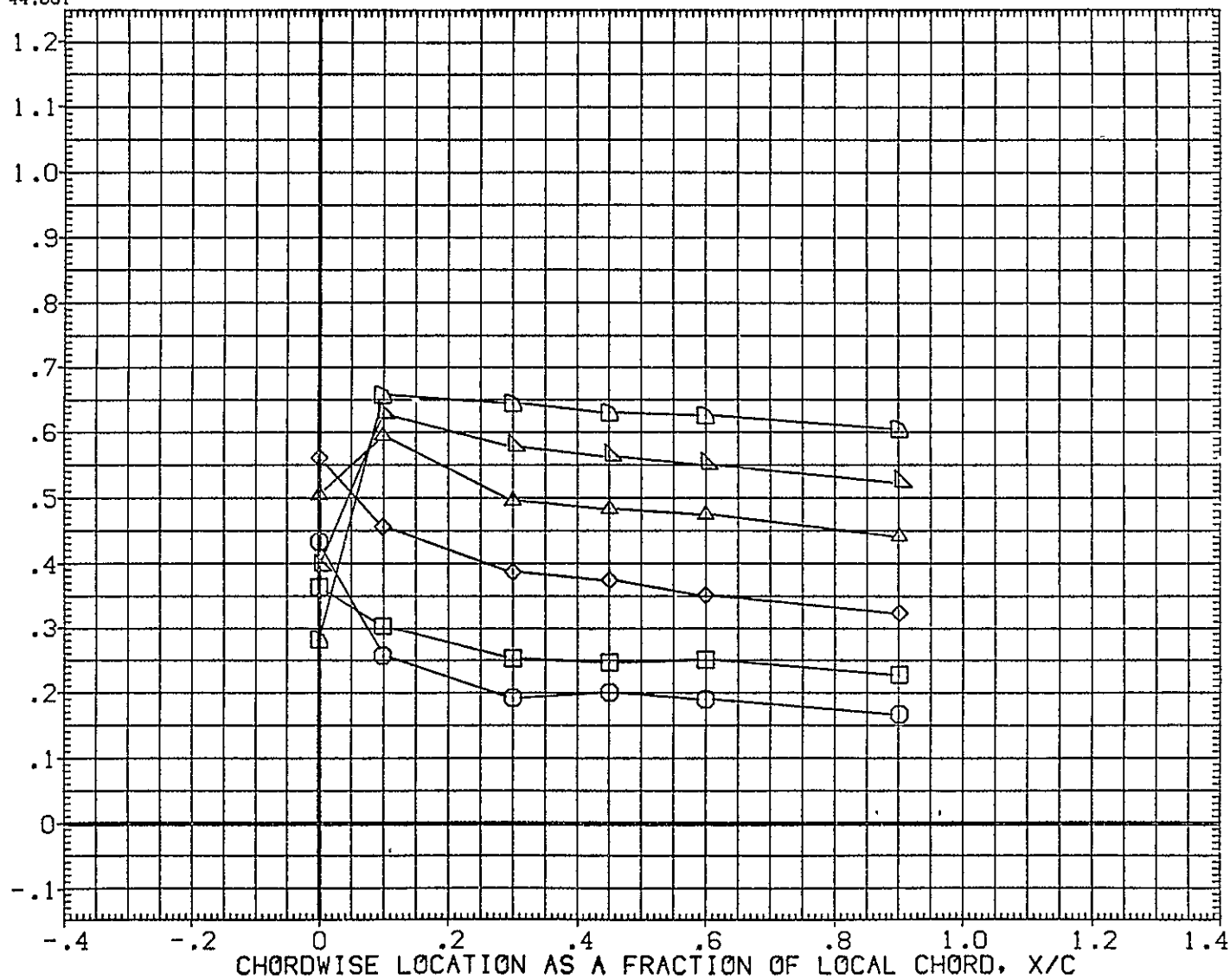


FIG. 5 WING LOWER SURFACE (LT)



ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL11)

SYMBOL ALPHA 2Y/B MACH  
O 48.676 .600 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L 10.000  
ELEV-R 9.100 SPOBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

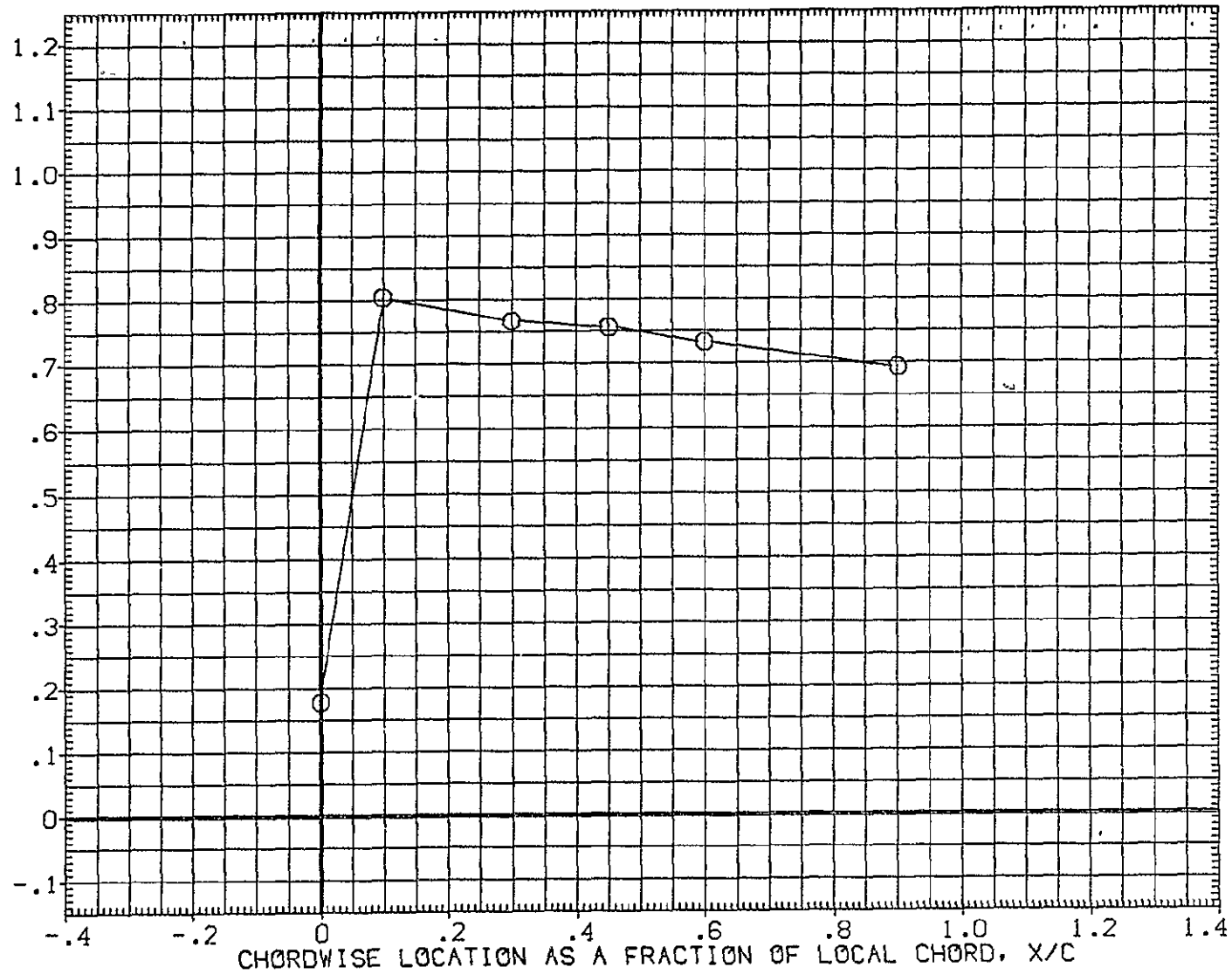


FIG. 5 WING LOWER SURFACE (LT)

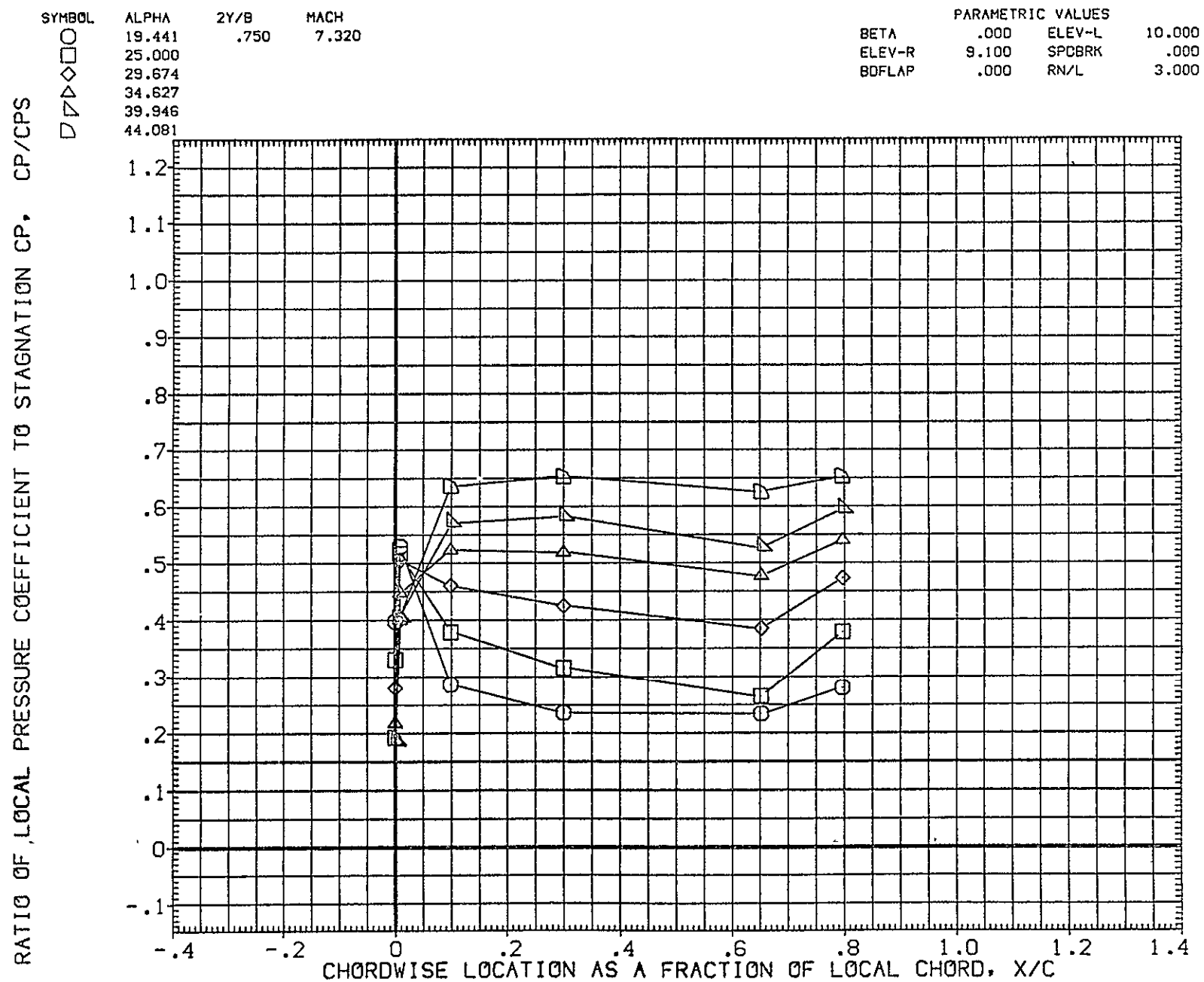


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL11)

SYMBOL    ALPHA    2Y/B    MACH  
 O        48.676    .750    7.320

PARAMETRIC VALUES  
 BETA        .000    ELEV-L    10.000  
 ELEV-R    9.100    SPDBRK    .000  
 BDFLAP    .000    RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

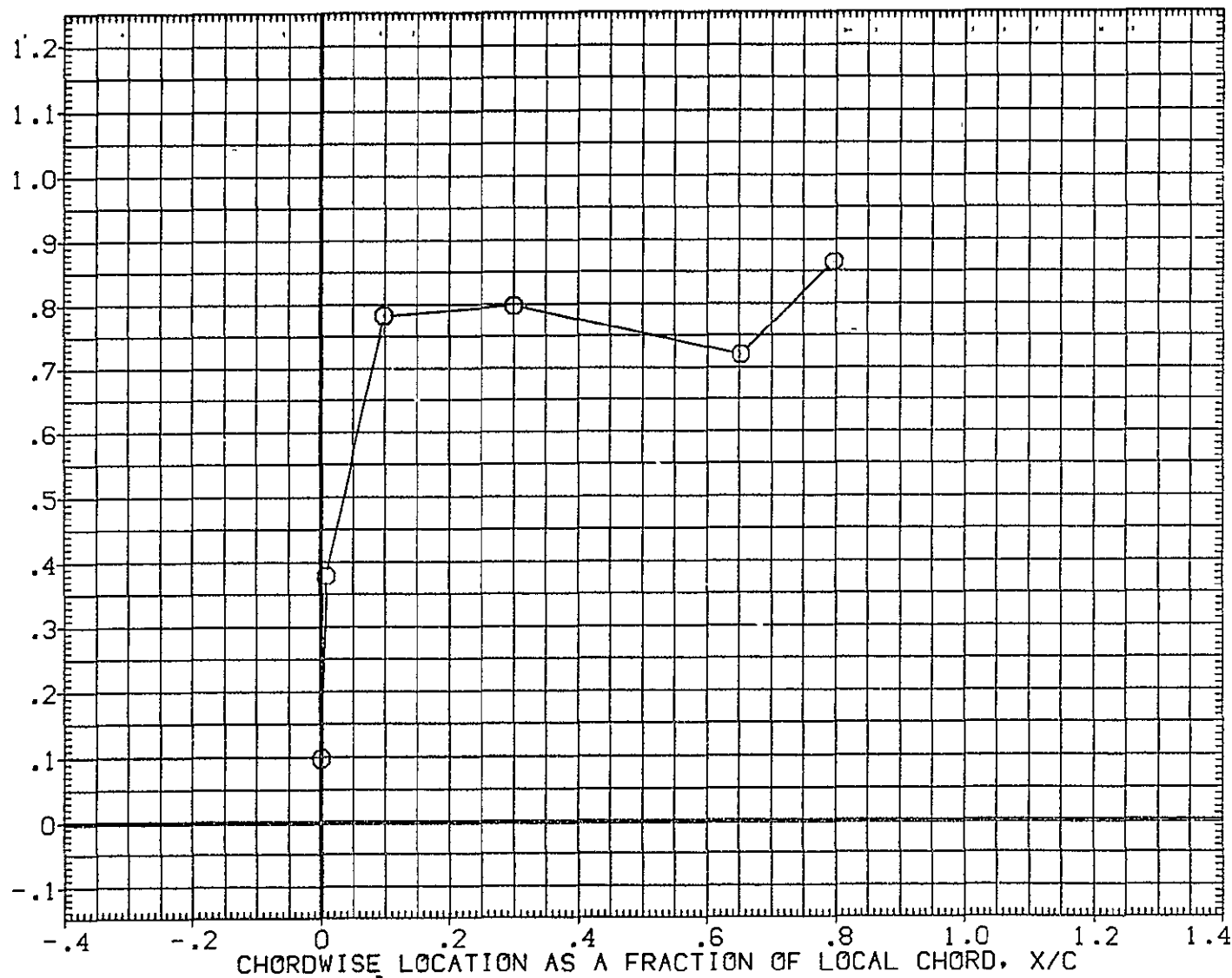


FIG. 5 WING LOWER SURFACE (LT)

## RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

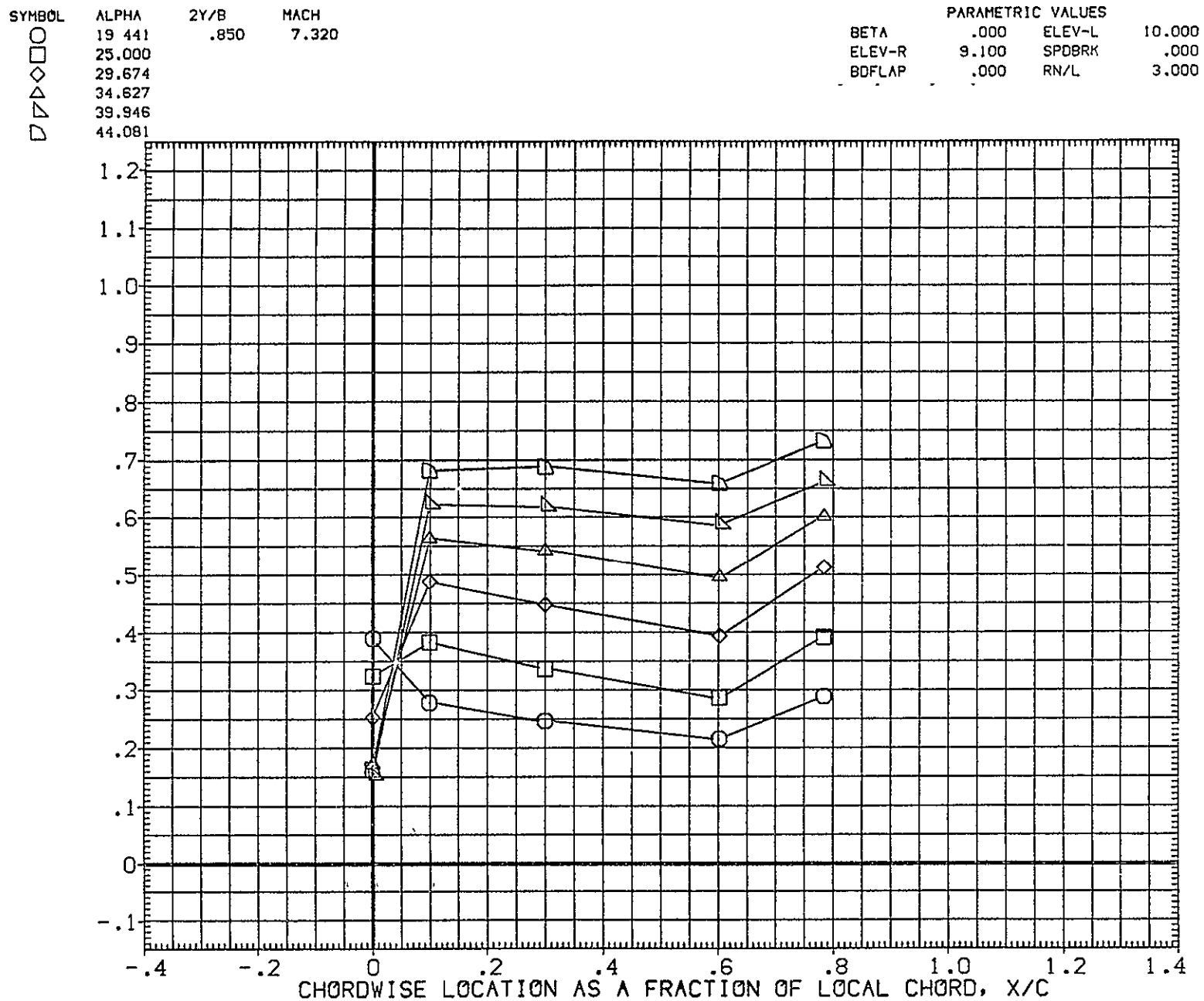


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL11)

SYMBOL	ALPHA	2Y/B	MACH
○	48.676	.850	7.320

PARAMETRIC VALUES		
BETA	.000	ELEV-L 10.000
ELEV-R	9.100	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

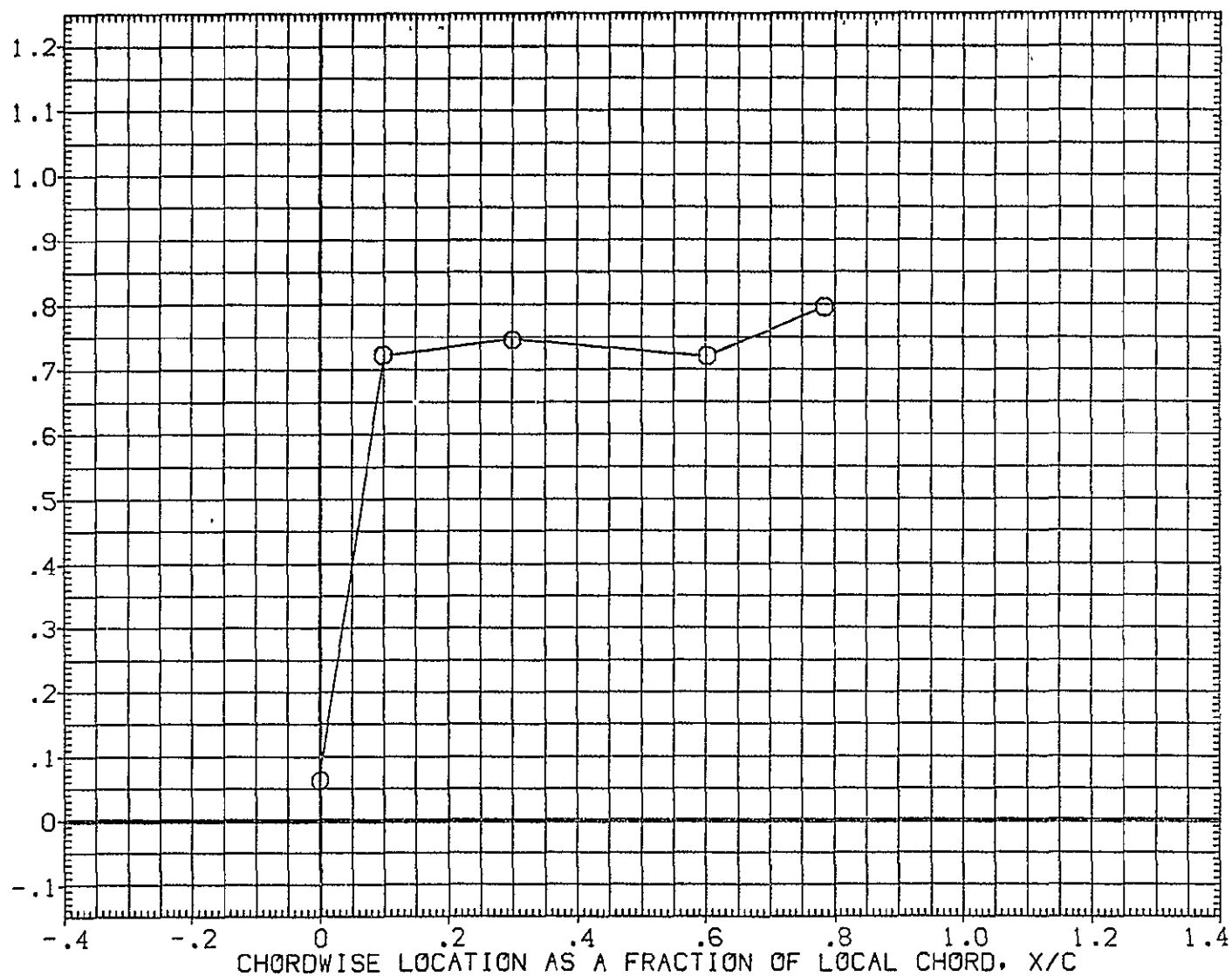


FIG. 5 WING LOWER SURFACE (LT)

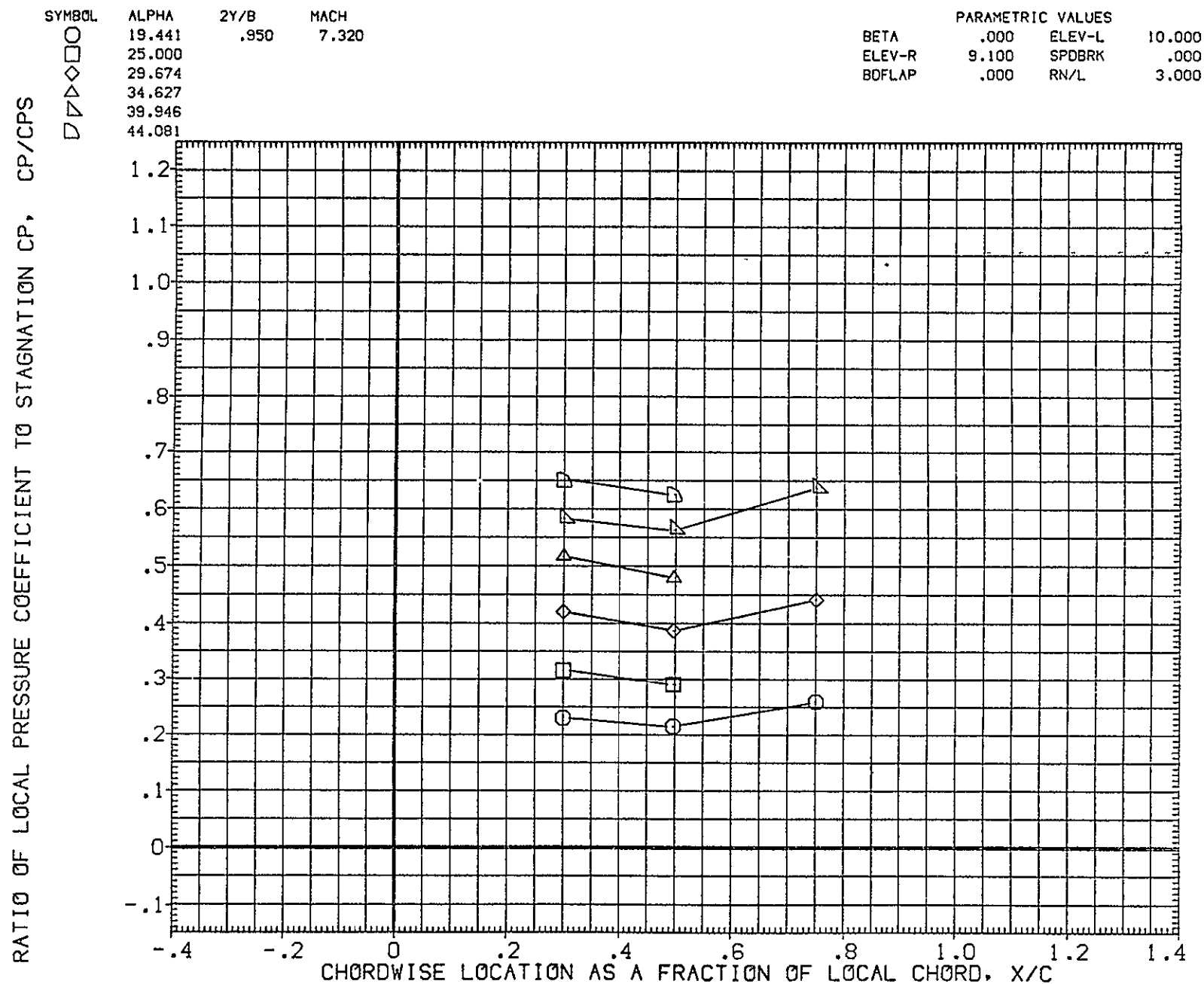


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL11)

SYMBOL    ALPHA    2Y/B    MACH  
 O        48.676    .950    7.320

PARAMETRIC VALUES  
 BETA        .000    ELEV-L    10.000  
 ELEV-R    9.100    SPDBRK    .000  
 BDFLAP    .000    RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

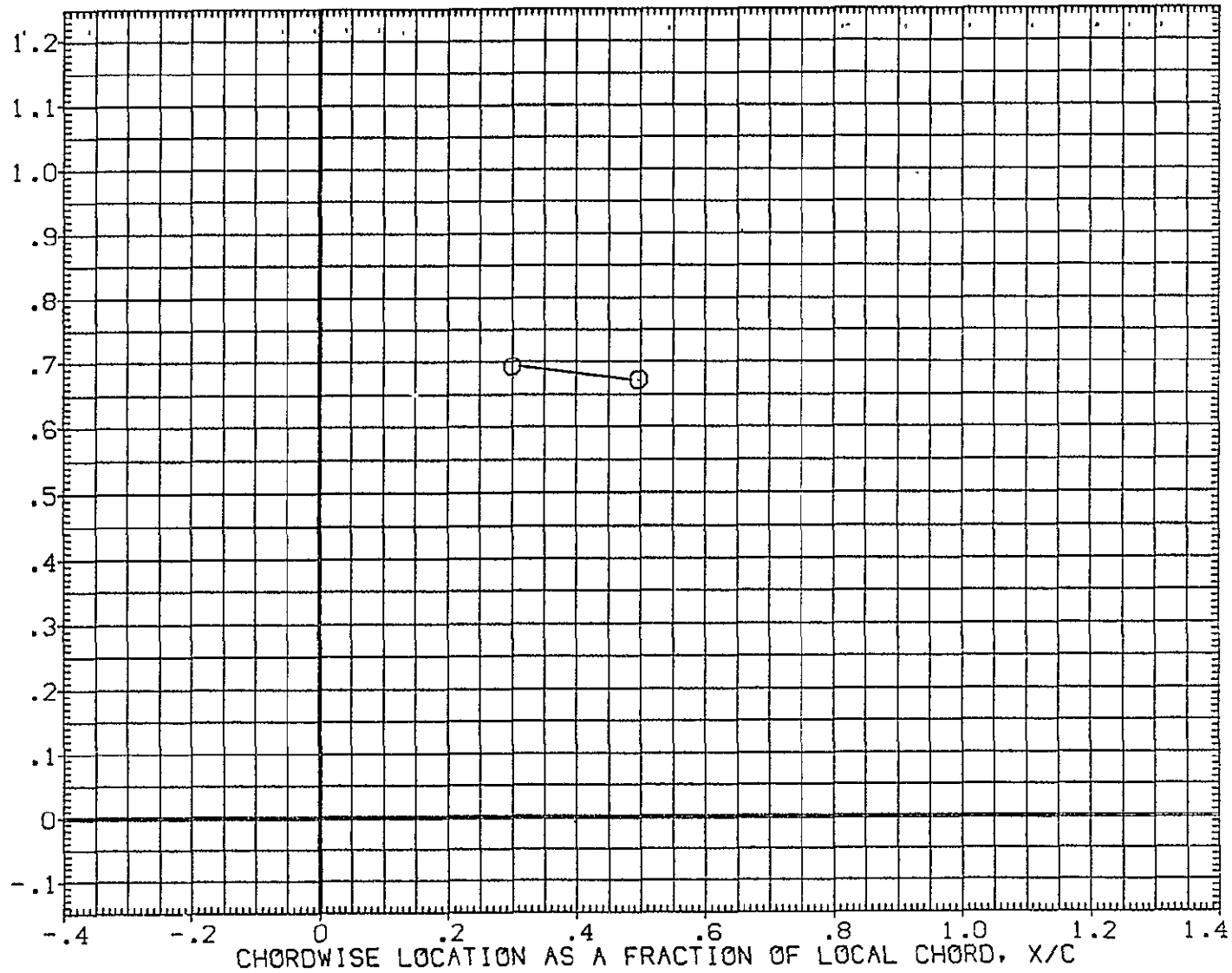


FIG. 5 WING LOWER SURFACE (LT)

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

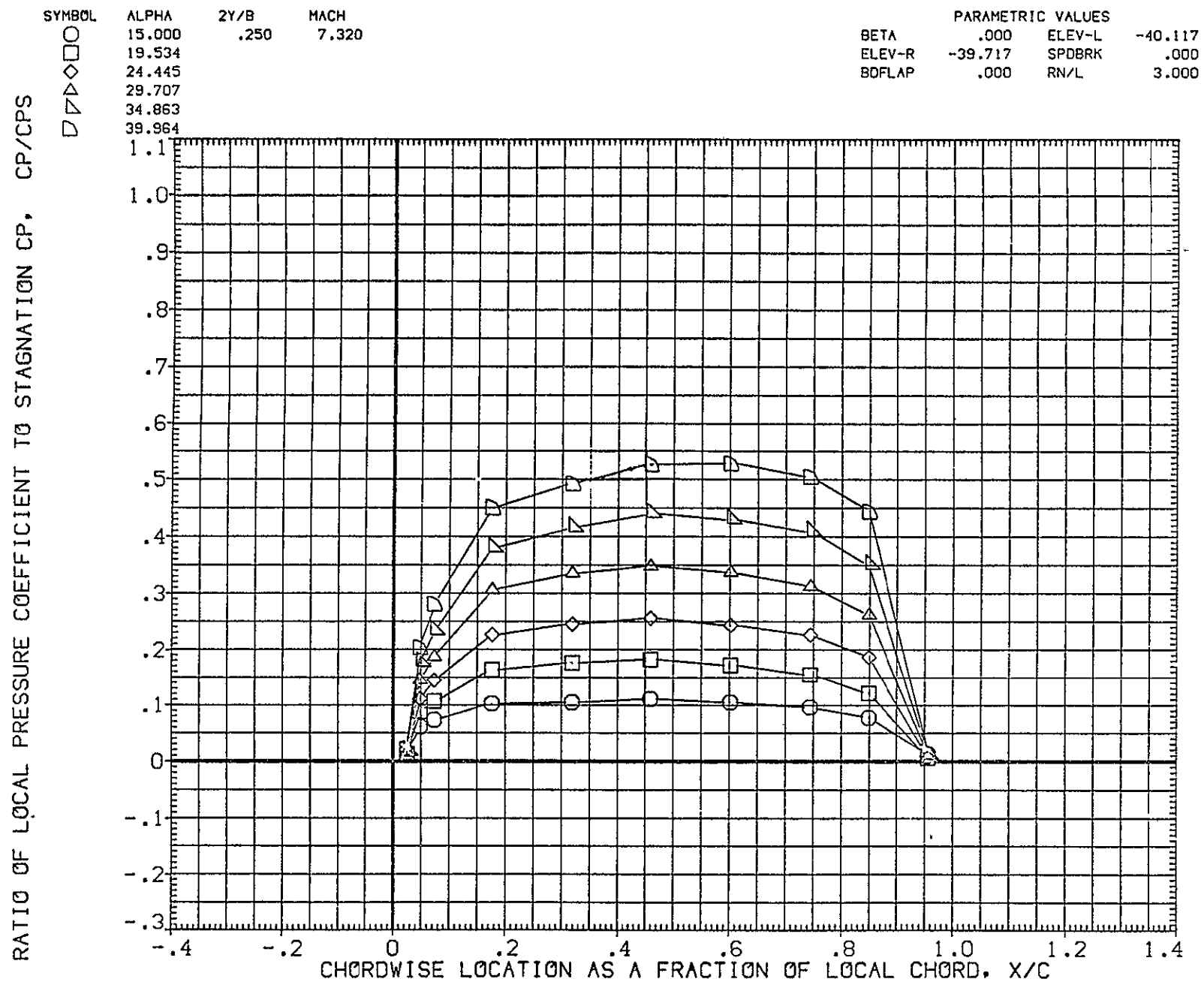


FIG. 5 WING LOWER SURFACE (LT)



# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL14)

SYMBOL  
□  
○

ALPHA 44.152  
50.000  
2Y/B .250  
MACH 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L -40.117  
ELEV-R -39.717 SPDBRK .000  
BOFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

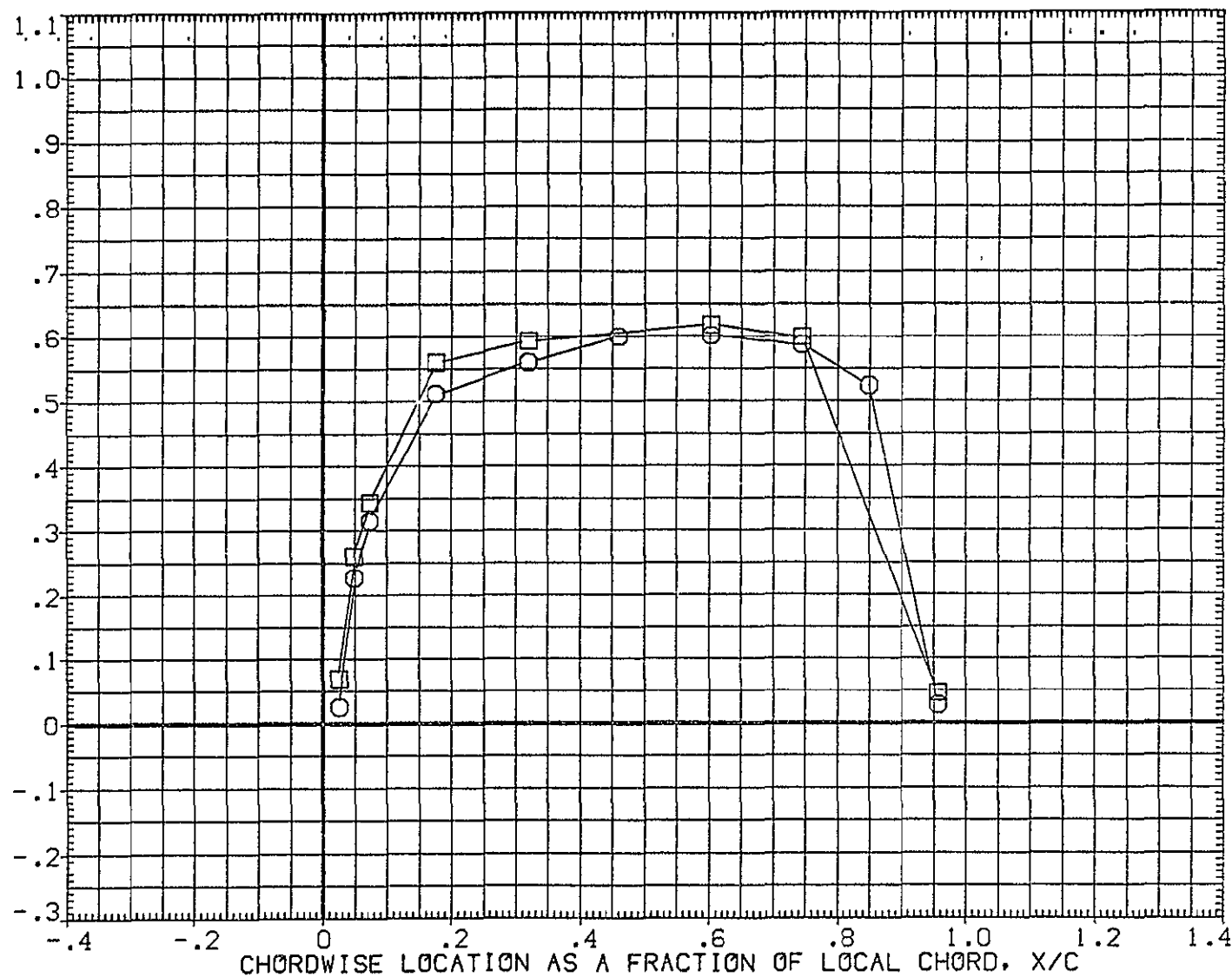


FIG. 5 WING LOWER SURFACE (LT)

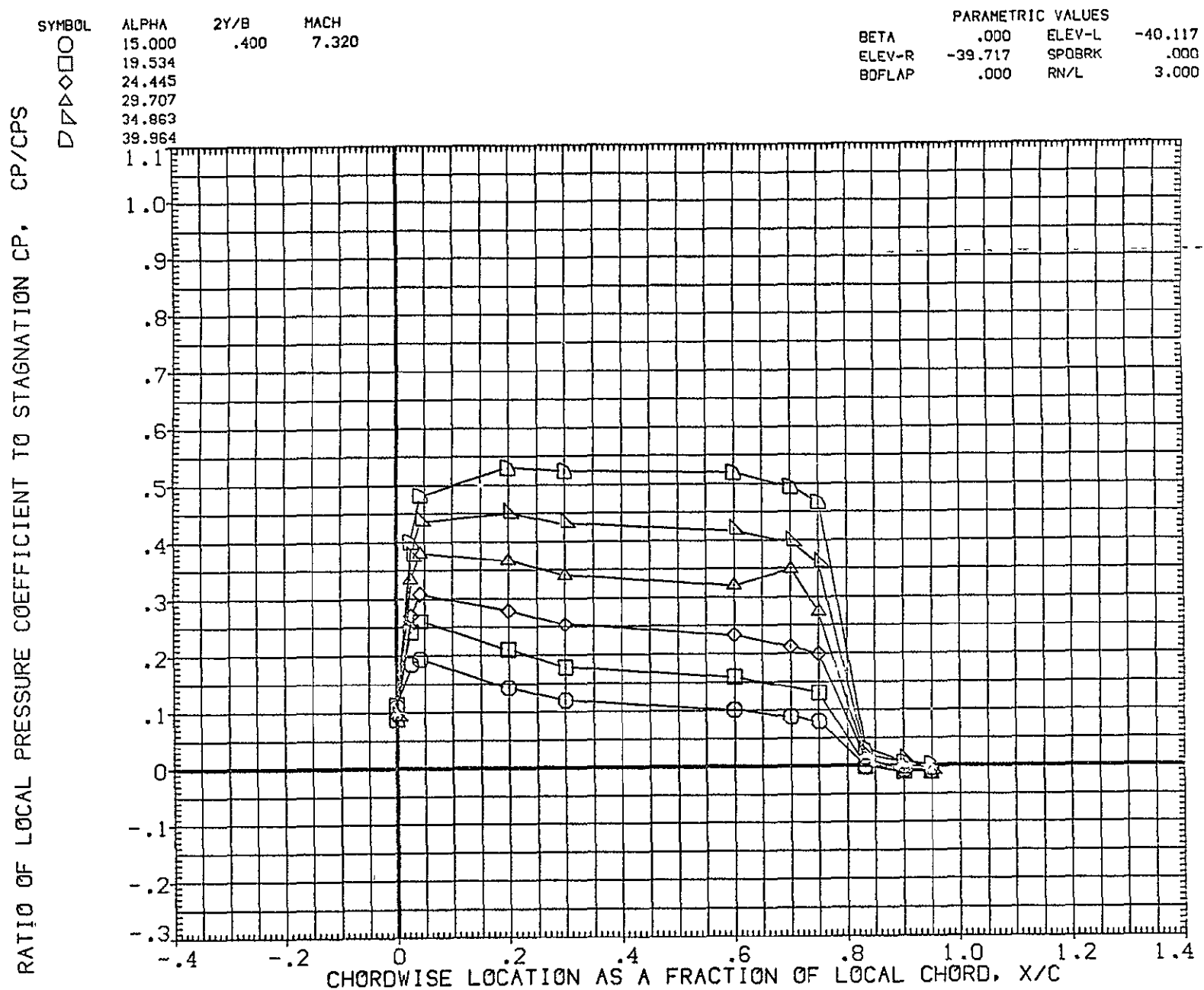


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT) (LEZL14)

SYMBOL  
○  
□

ALPHA  
44.152  
50.000

2Y/B  
.400

MACH  
7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

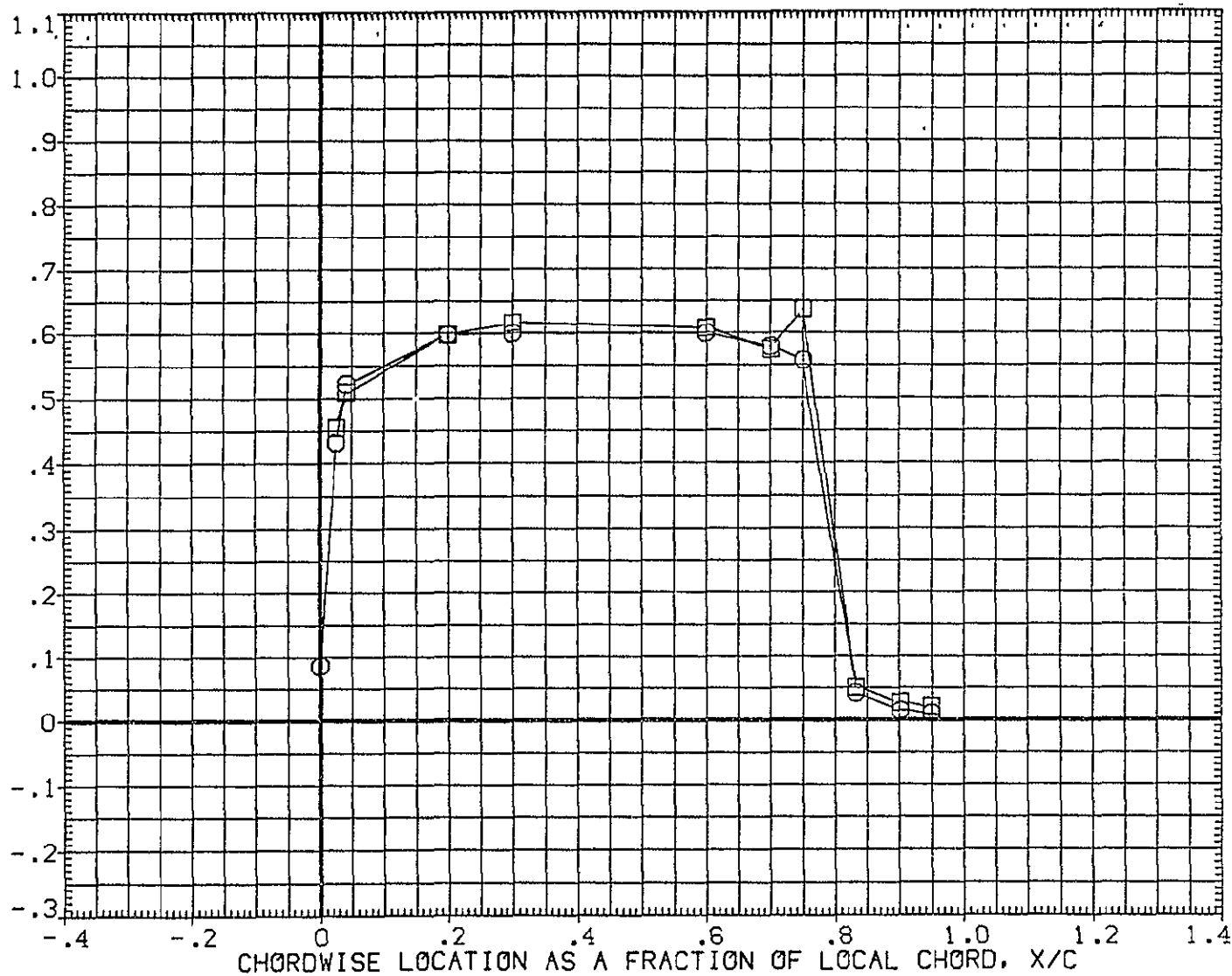


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL14)

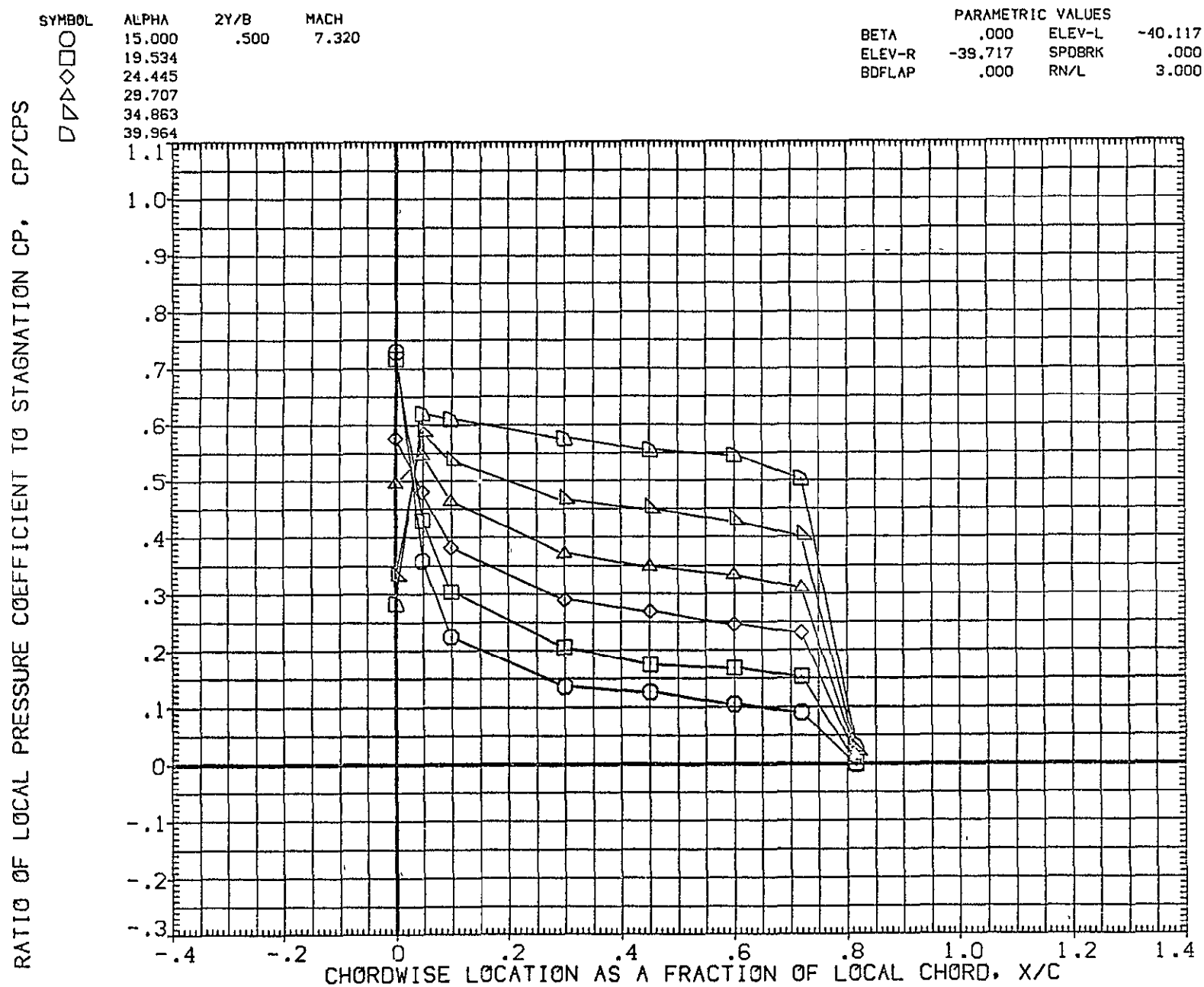


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL14)

SYMBOL	ALPHA	2Y/B	MACH
○	44.152	.500	7.320
□	50.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

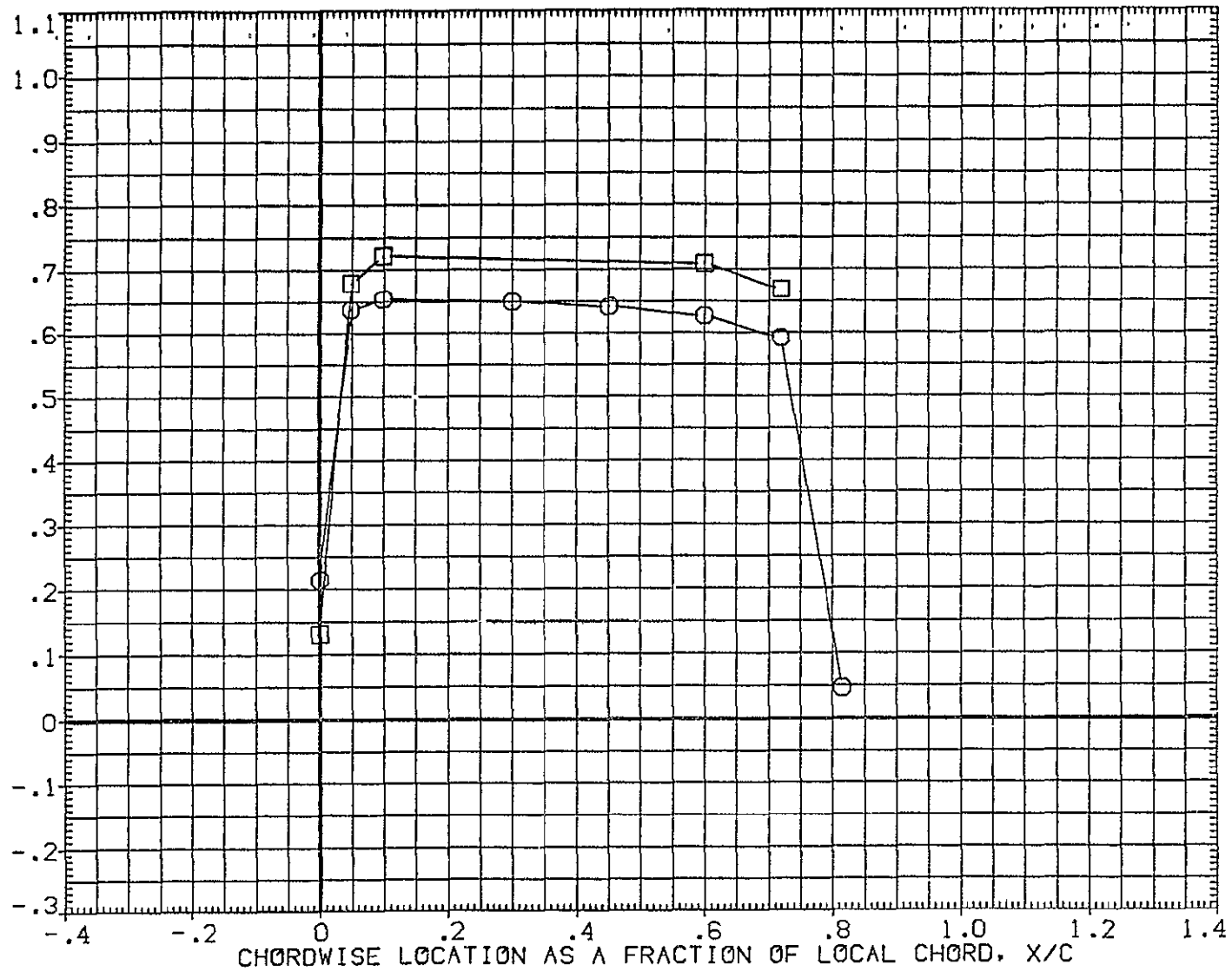


FIG. 5 WING LOWER SURFACE (LT)

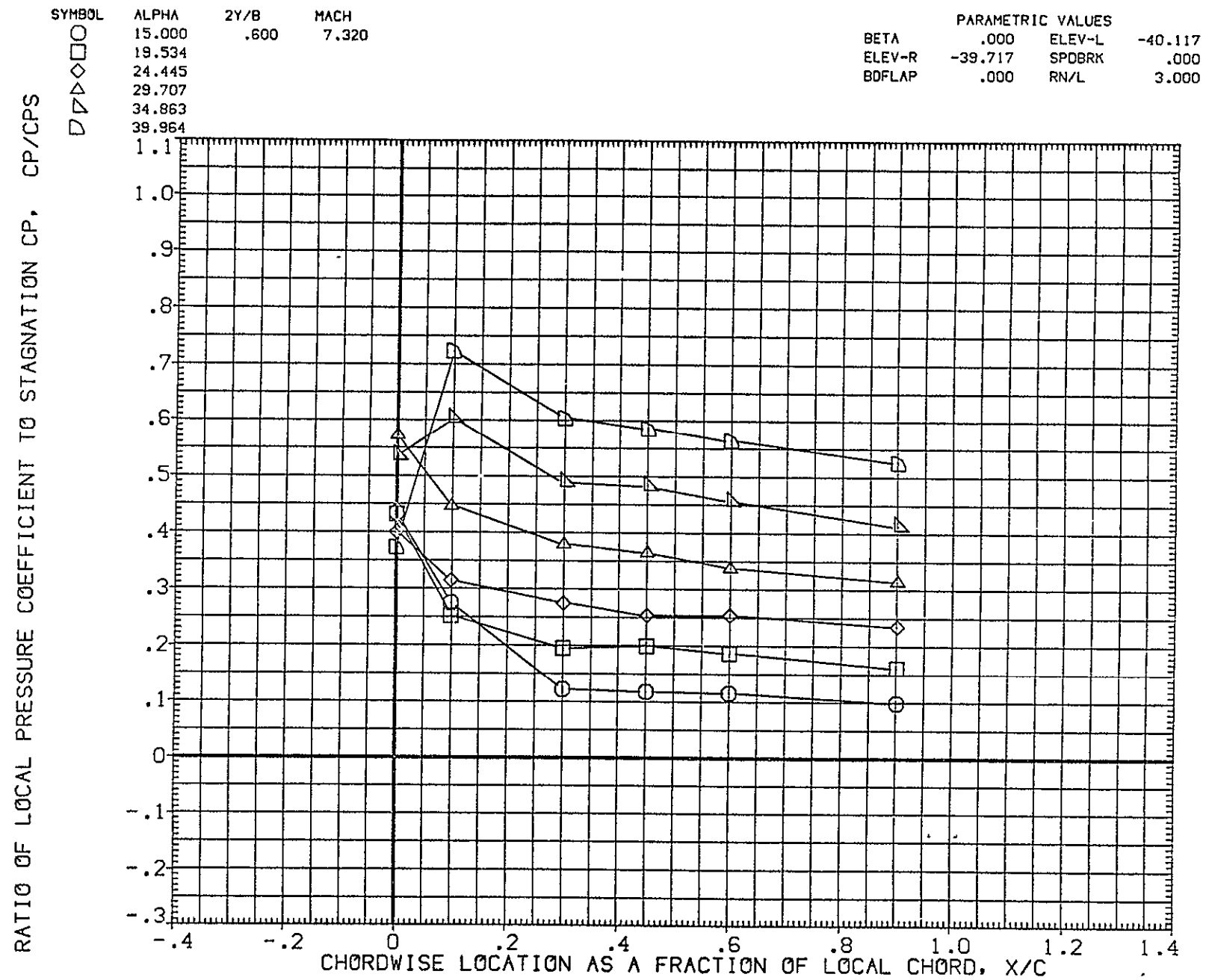


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL14)

SYMBOL  
○  
□

ALPHA 44.152  
50.000  
2Y/B .600  
MACH 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L -40.117  
ELEV-R -39.717 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

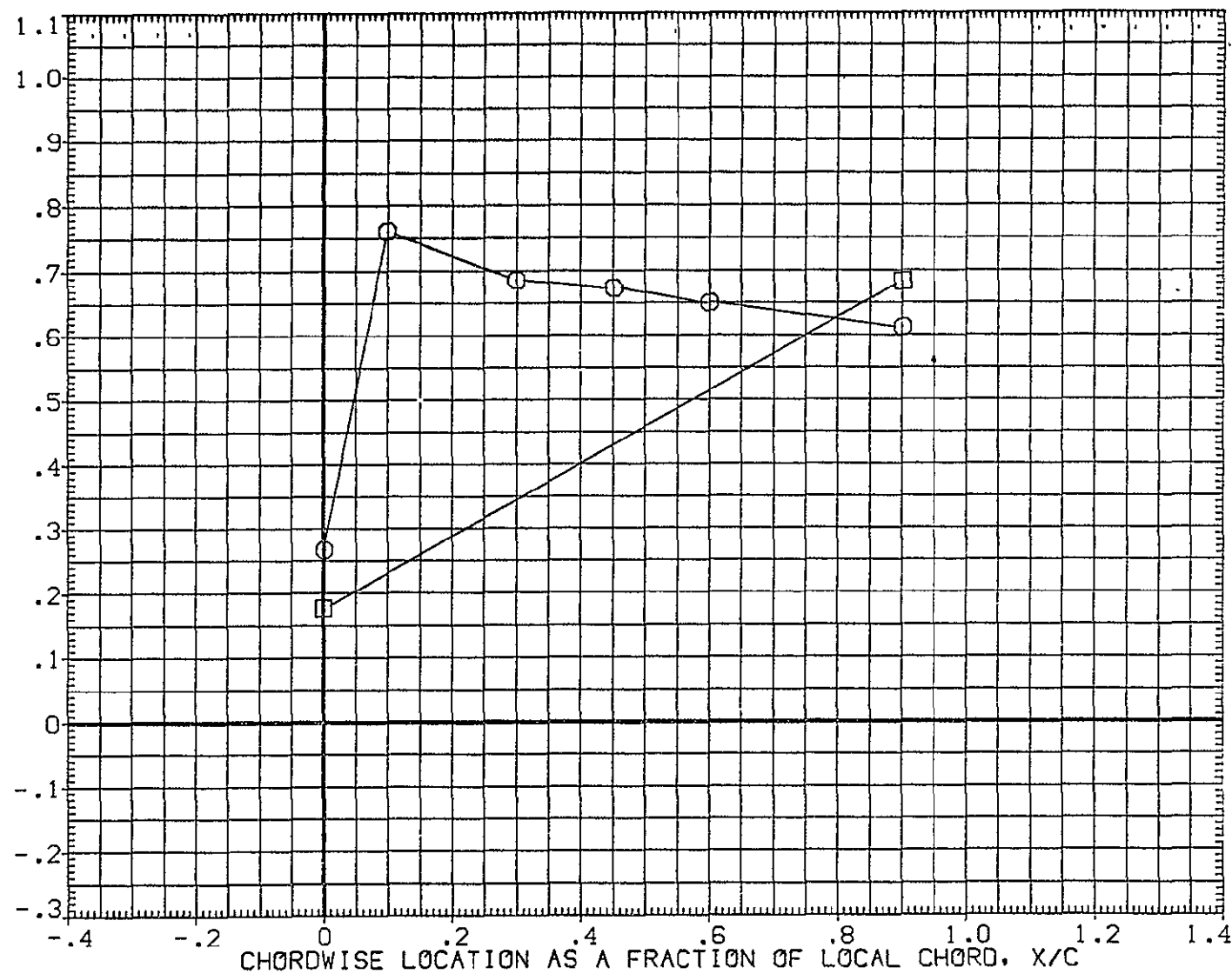


FIG. 5 WING LOWER SURFACE (LT)

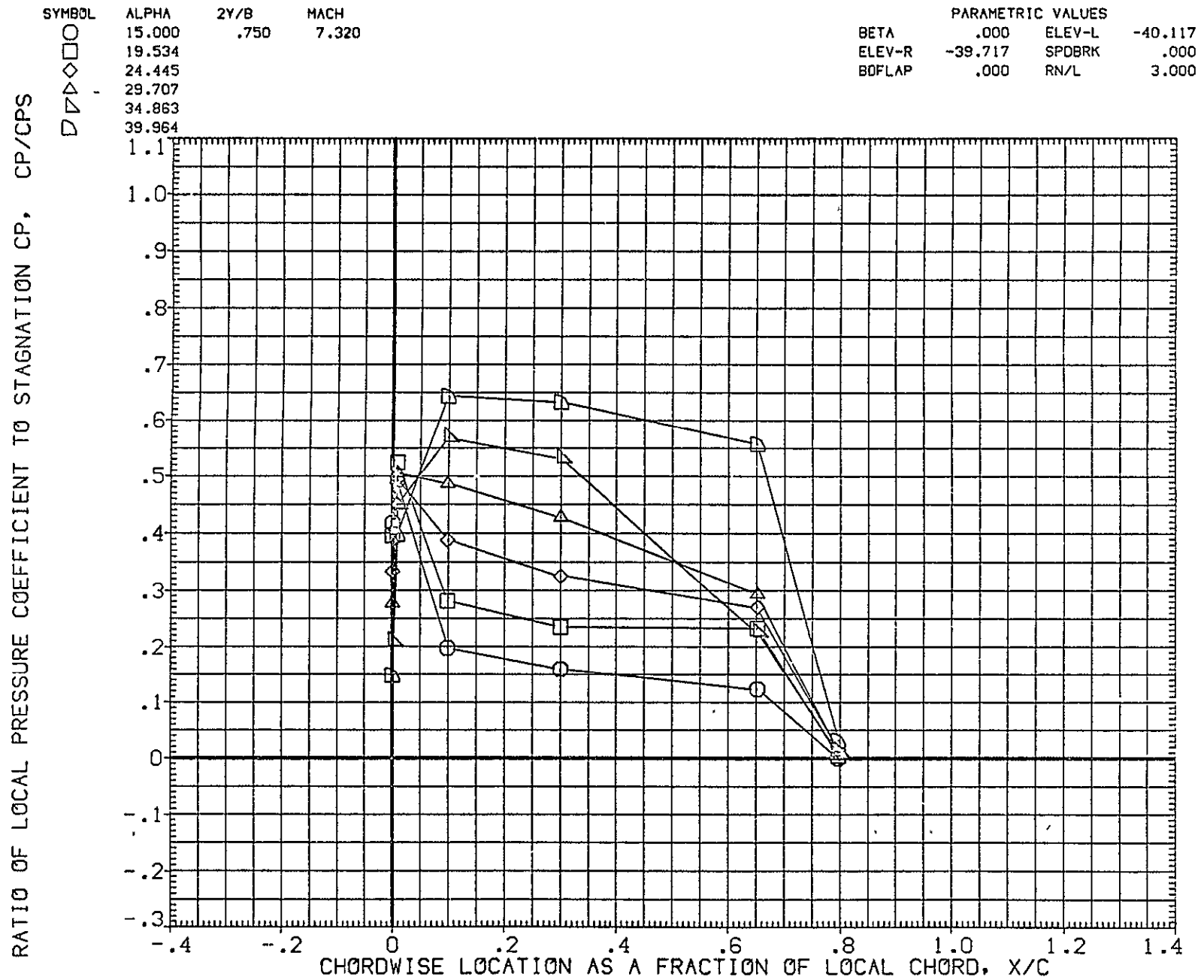


FIG. 5 WING LOWER SURFACE (LT)



# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL14)

SYMBOL	ALPHA	2Y/B	MACH
○	44.152	.750	7.320
□	50.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-L -40.117
ELEV-R	-39.717	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

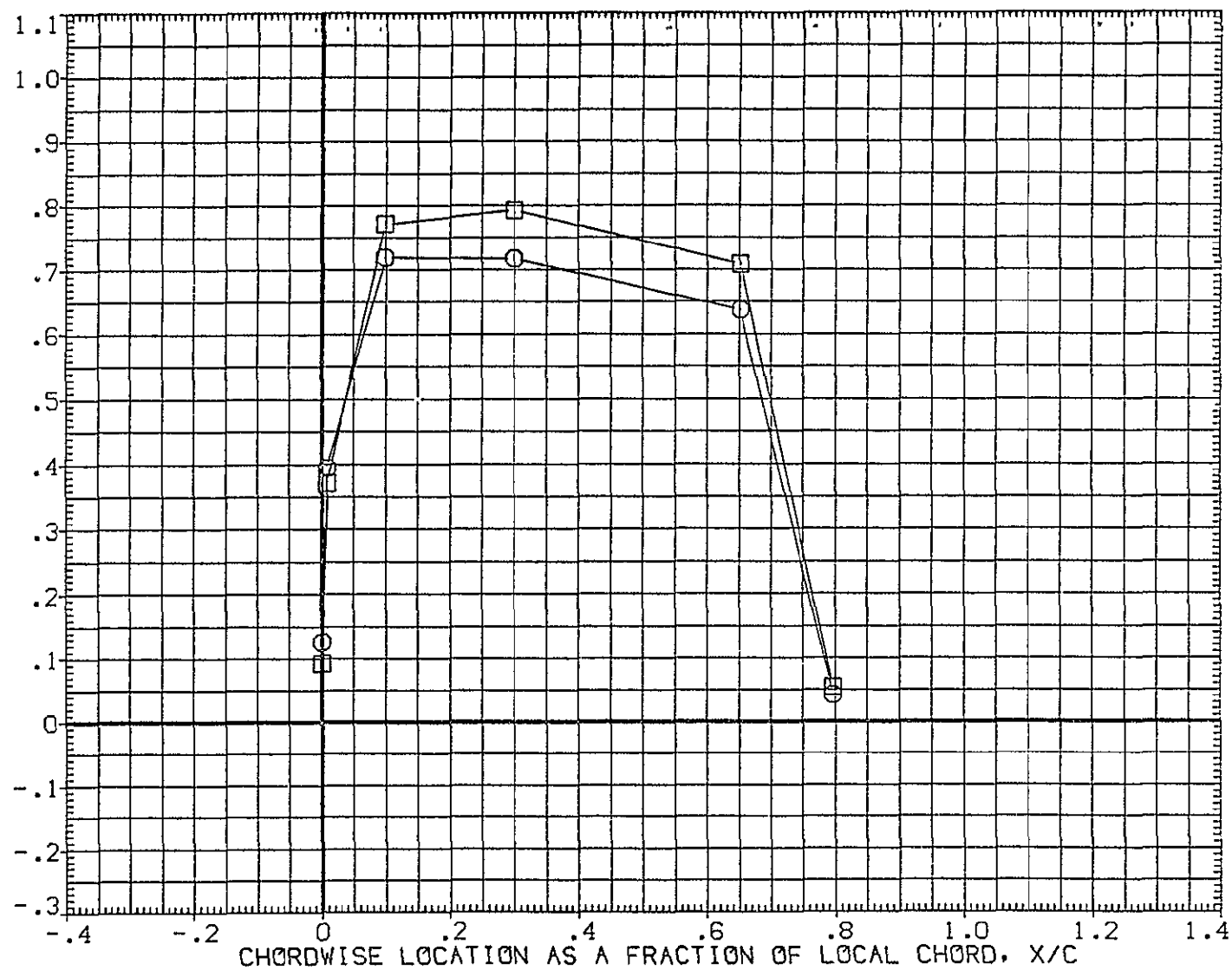


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL14)

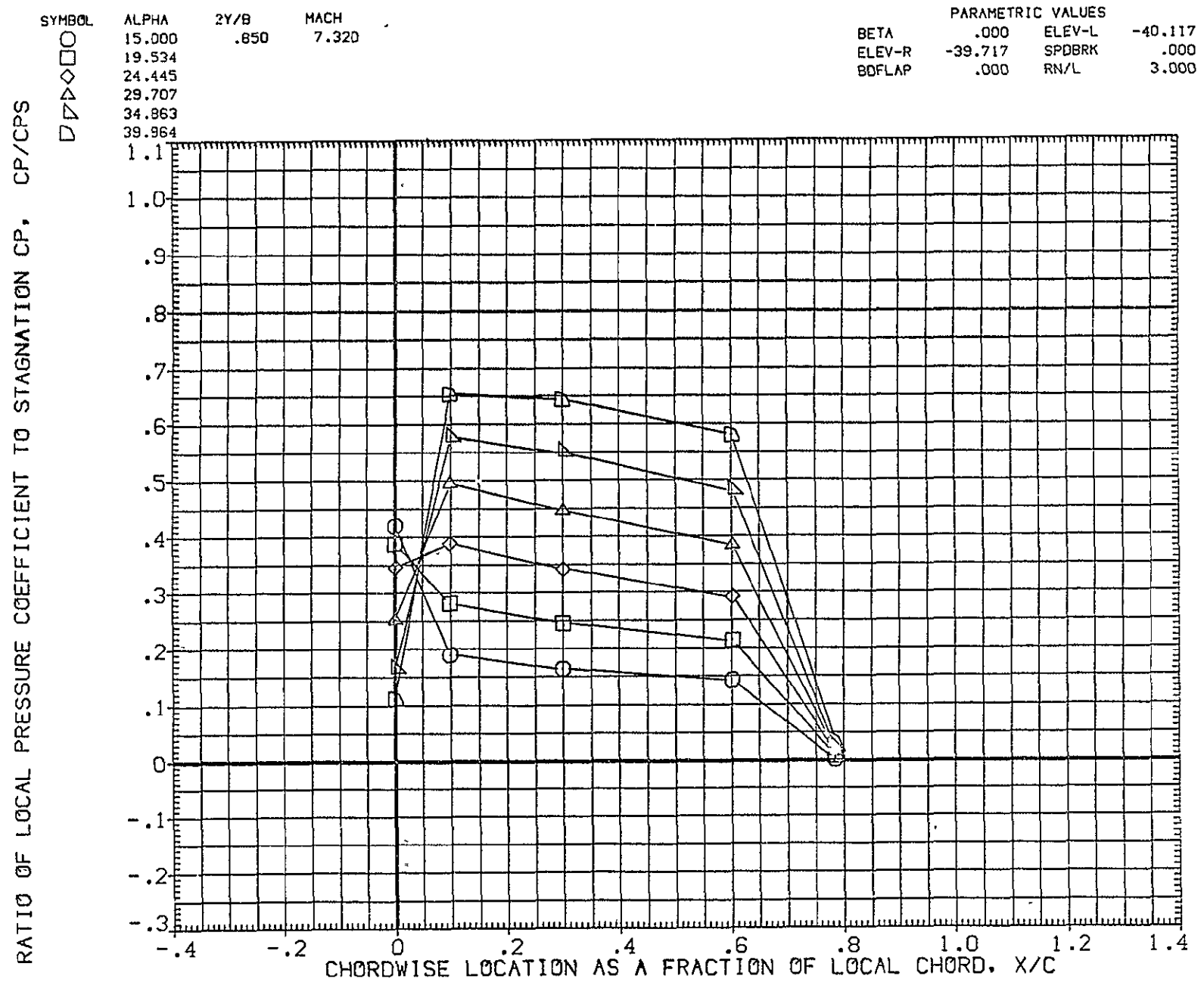


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT) (LEZL14)

SYMBOL  
○  
□

ALPHA  
44.152  
50.000

2Y/B  
.850

MACH  
7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

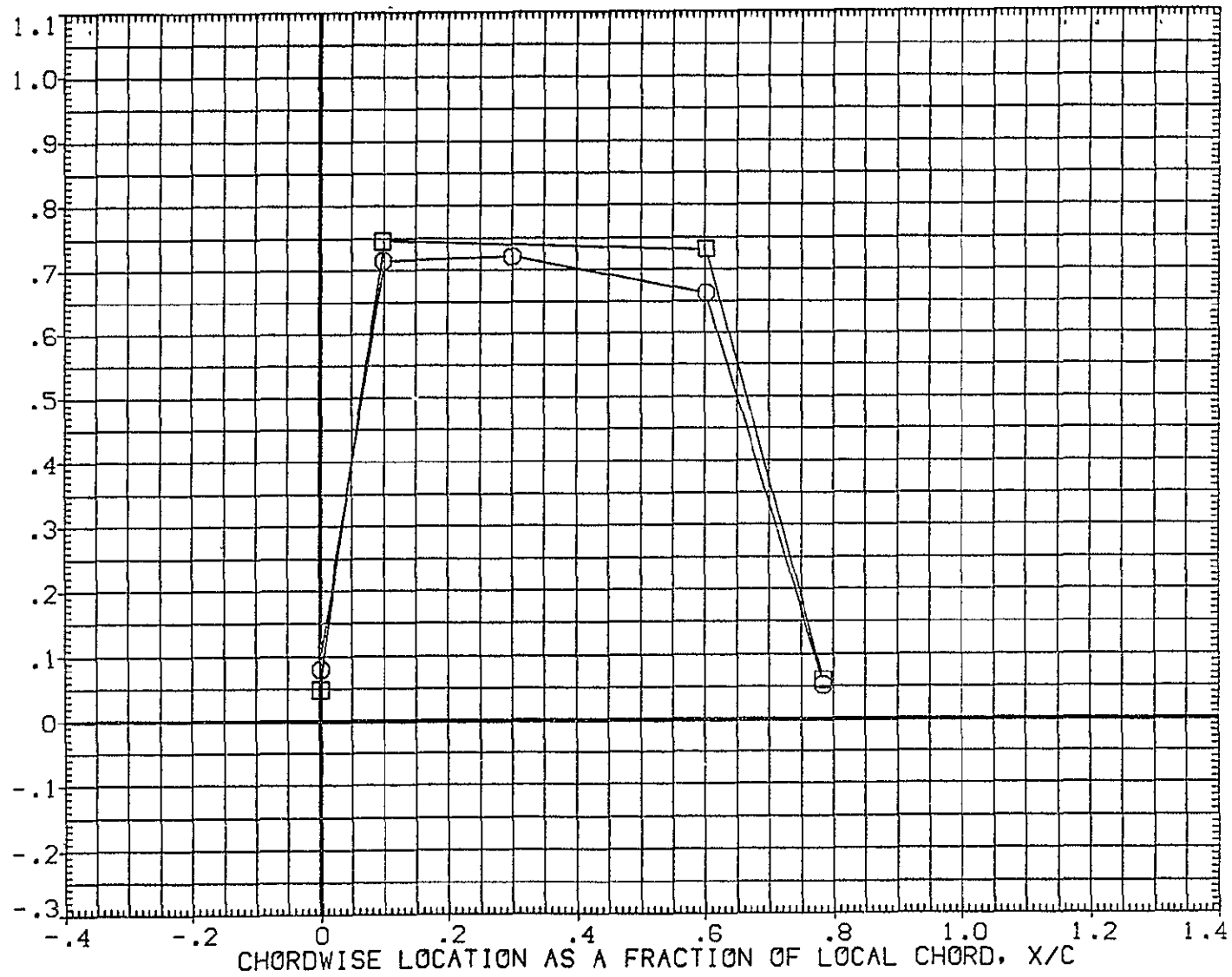


FIG. 5 WING LOWER SURFACE (LT)

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL14)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

BETA

.000

ELEV-L

-40.117

ELEV-R

-39.717

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

15.000

19.534

24.445

29.707

34.863

39.964

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○  
□  
◇  
△  
▽  
▷  
◁

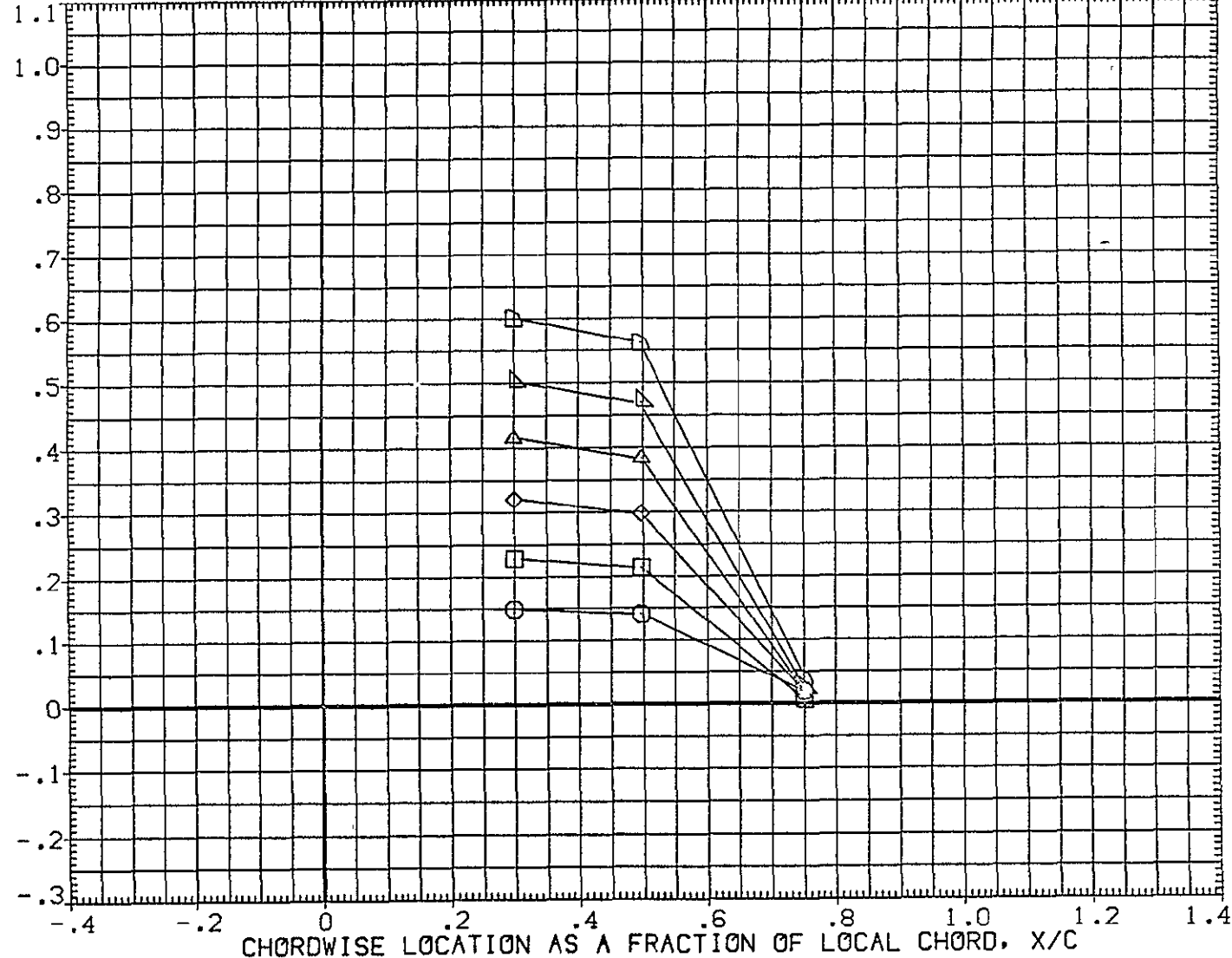


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL14)

SYMBOL  
○  
□

ALPHA 44.152  
50.000  
2Y/B .950  
MACH 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L -40.117  
ELEV-R -39.717 SPDBRK .000  
BOFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

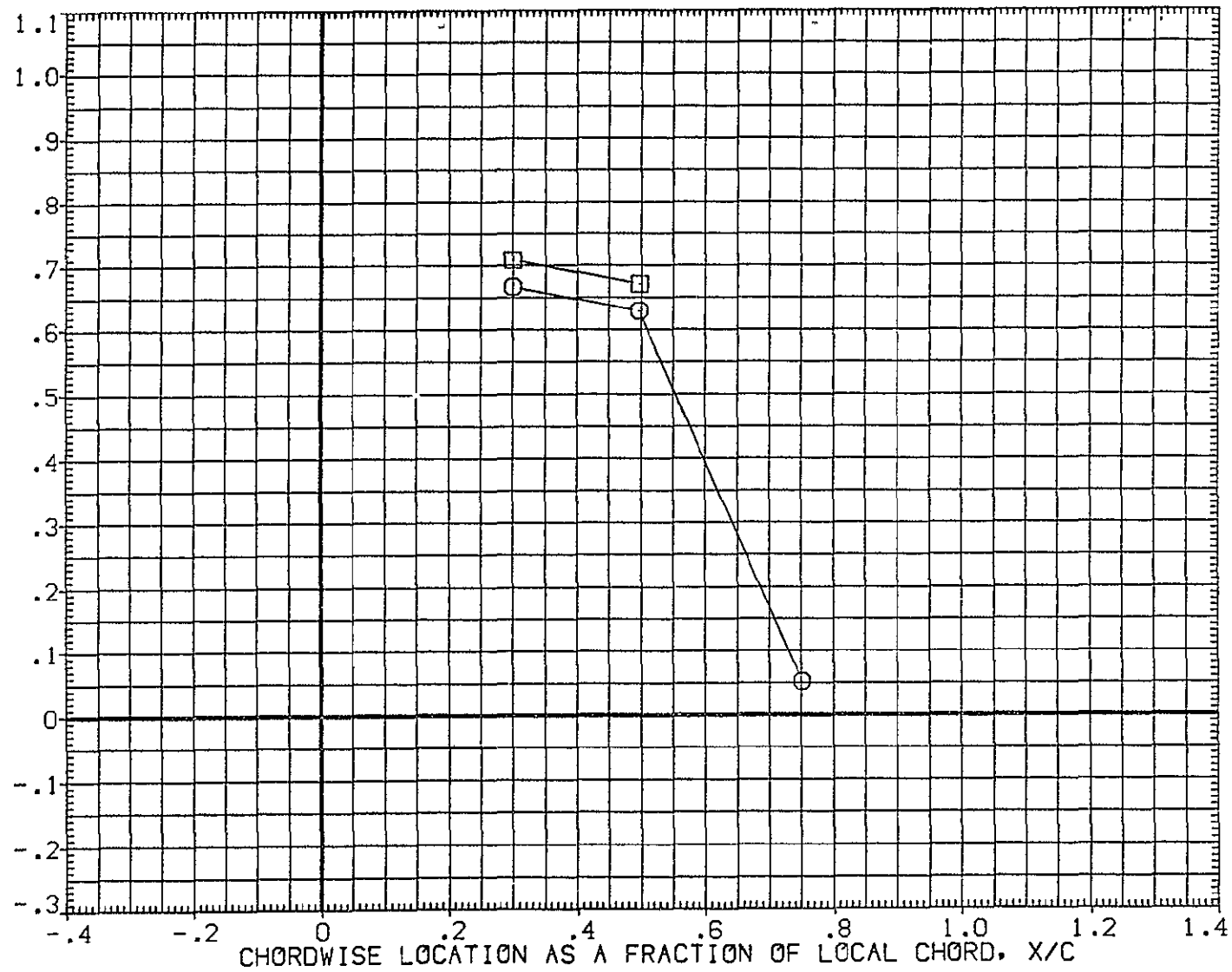


FIG. 5 WING LOWER SURFACE (LT)

ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL16)

SYMBOL  
○  
◇  
□  
△  
▽

ALPHA 19.582  
24.797  
29.720  
34.753  
48.717

2Y/B .250

MACH 7.320

PARAMETRIC VALUES

BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

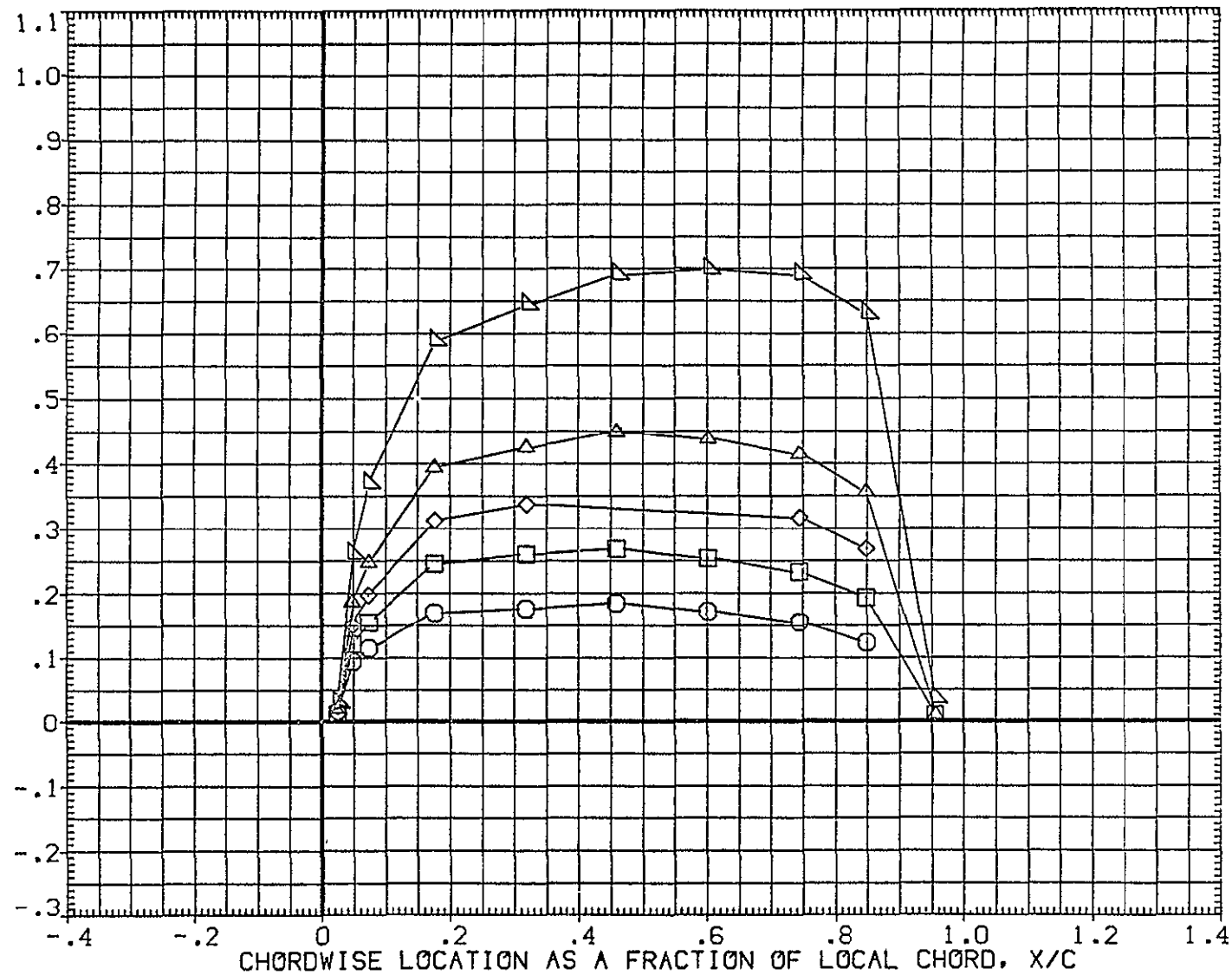


FIG. 5 WING LOWER SURFACE (LT)

REPRODUCIBILITY OF THE  
ORIGINAL DATA IS POOR

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL16)



FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

○  
□  
◇  
△  
▽

ALPHA

19.582

2Y/B

.500

MACH

7.320

PARAMETRIC VALUES

BETA

-1.000

ELEV-L

.117

ELEV-R

.000

SPDRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

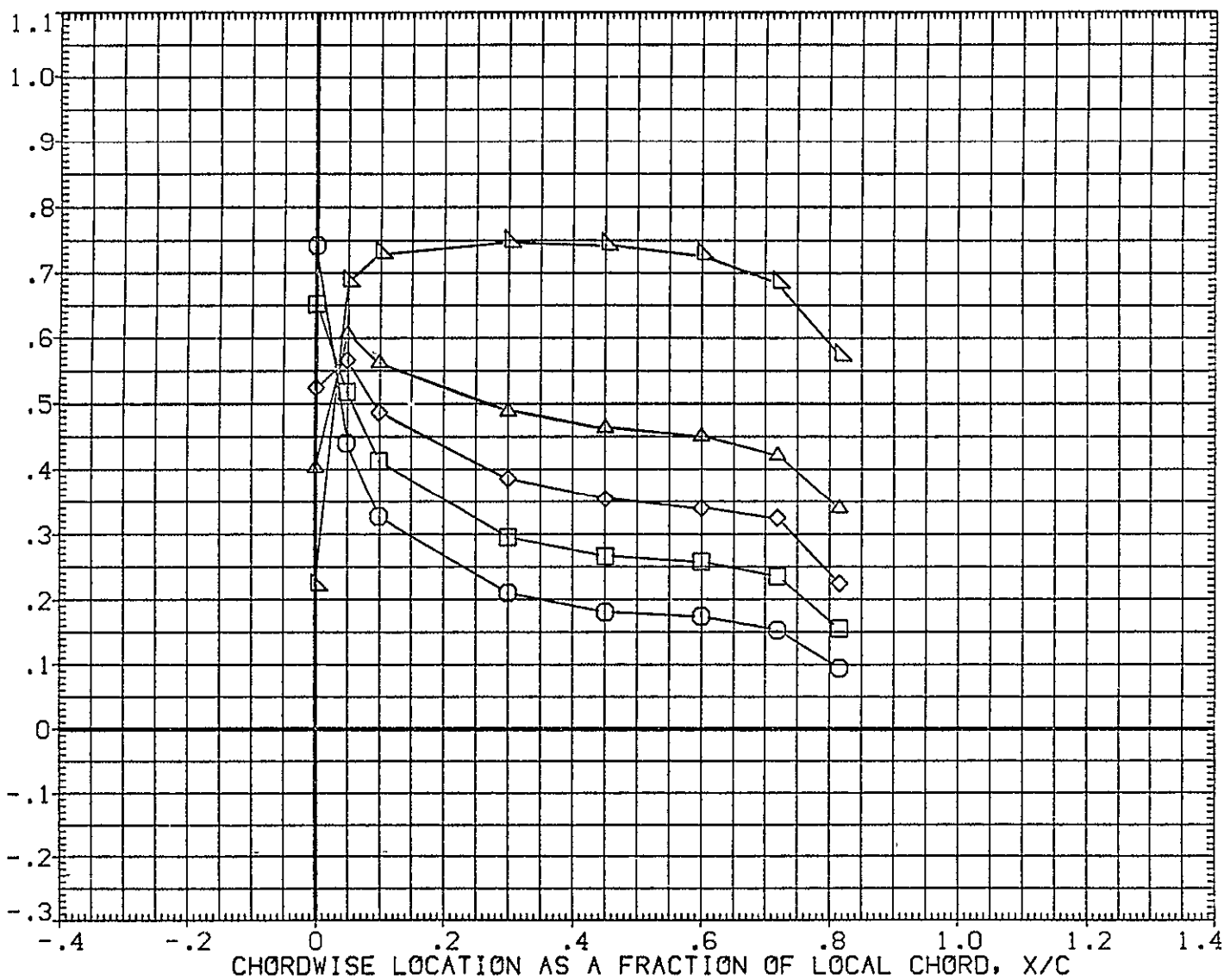


FIG. 5 WING LOWER SURFACE (LT)



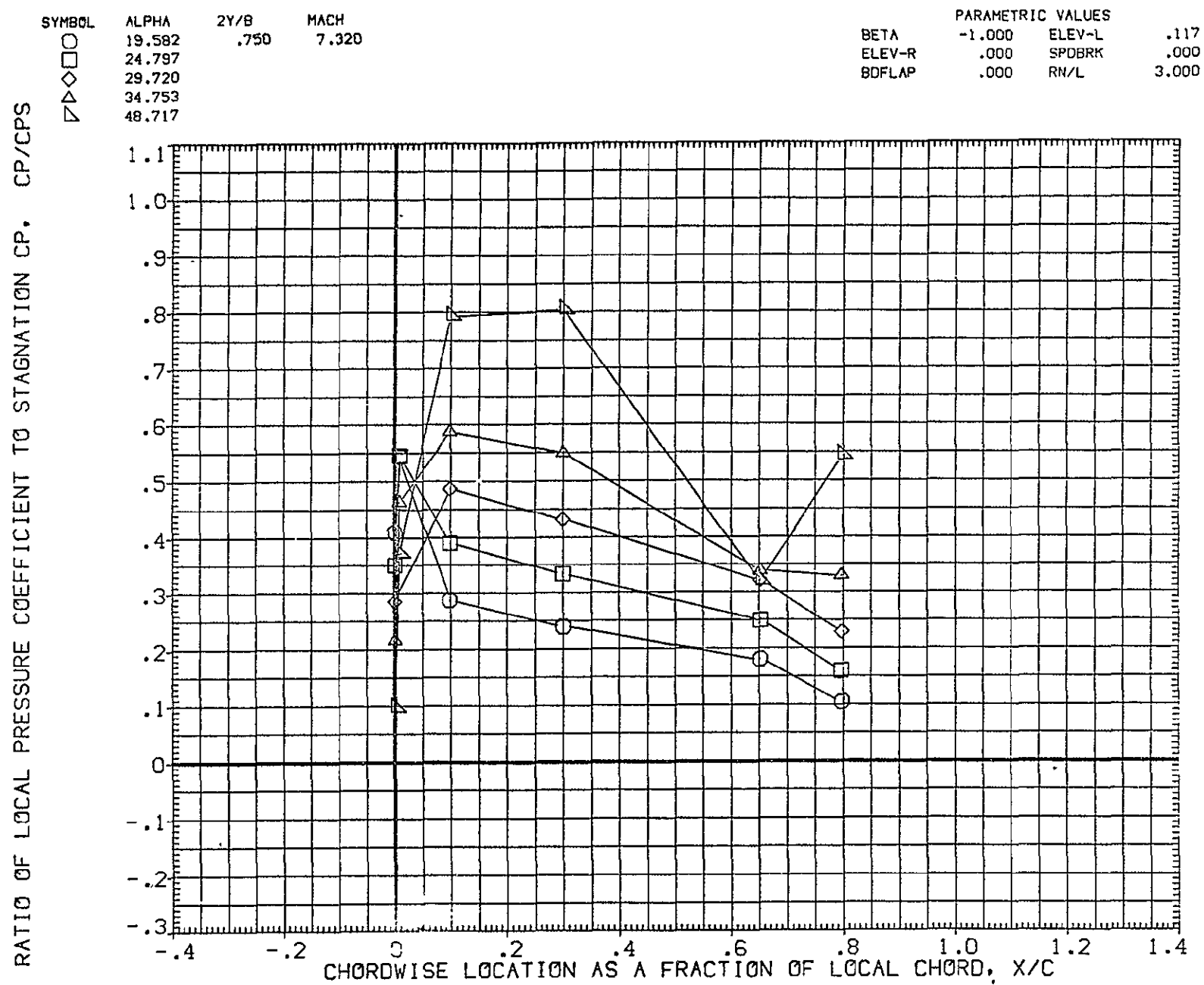


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL16)

SYMBOL  
○  
□  
◇  
△

ALPHA  
19.582  
24.797  
29.720  
34.753  
48.717

2Y/B  
.600

MACH  
7.320

PARAMETRIC VALUES  
BETA -1.000 ELEV-L .117  
ELEV-R .000 SPOBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

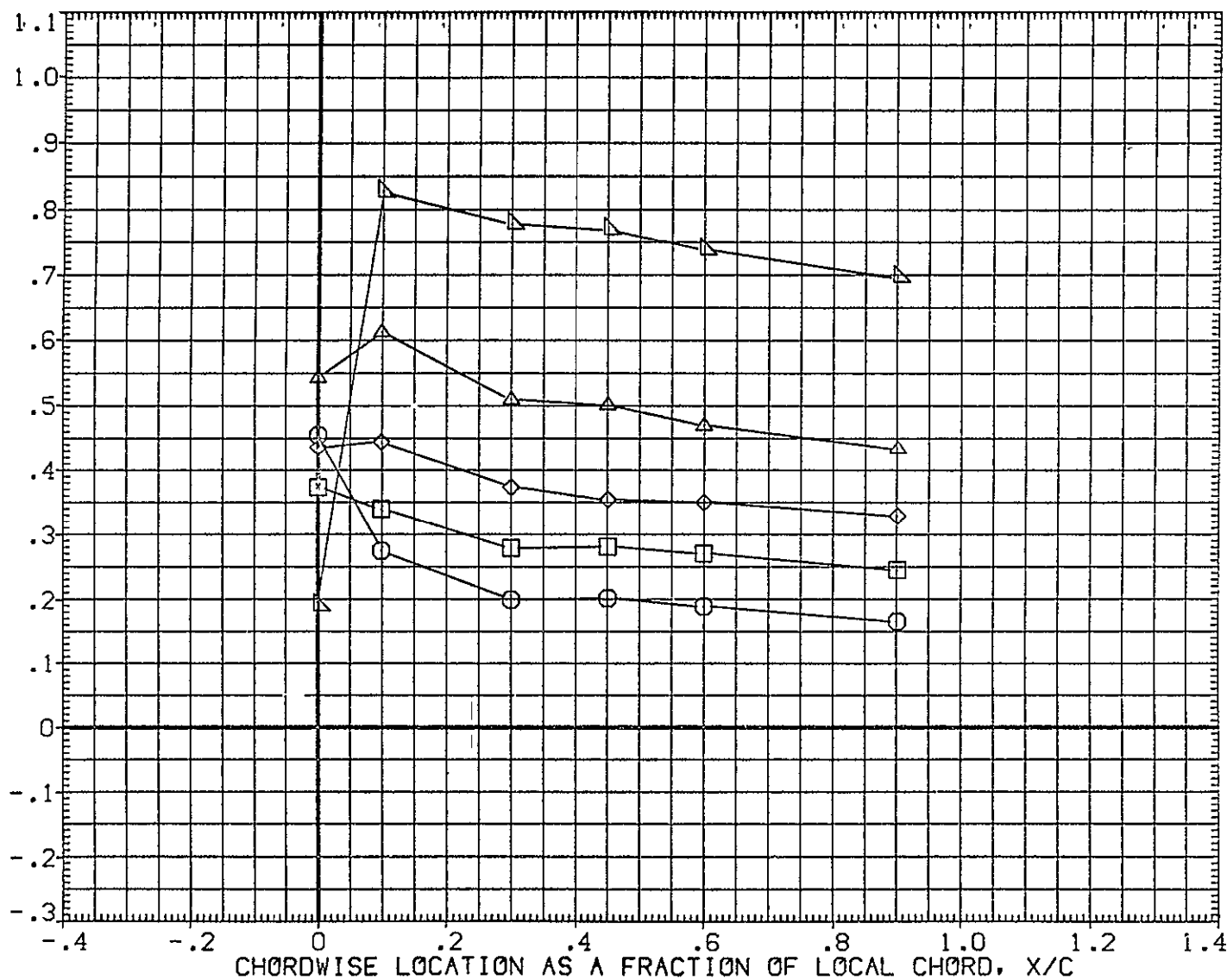


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL16)

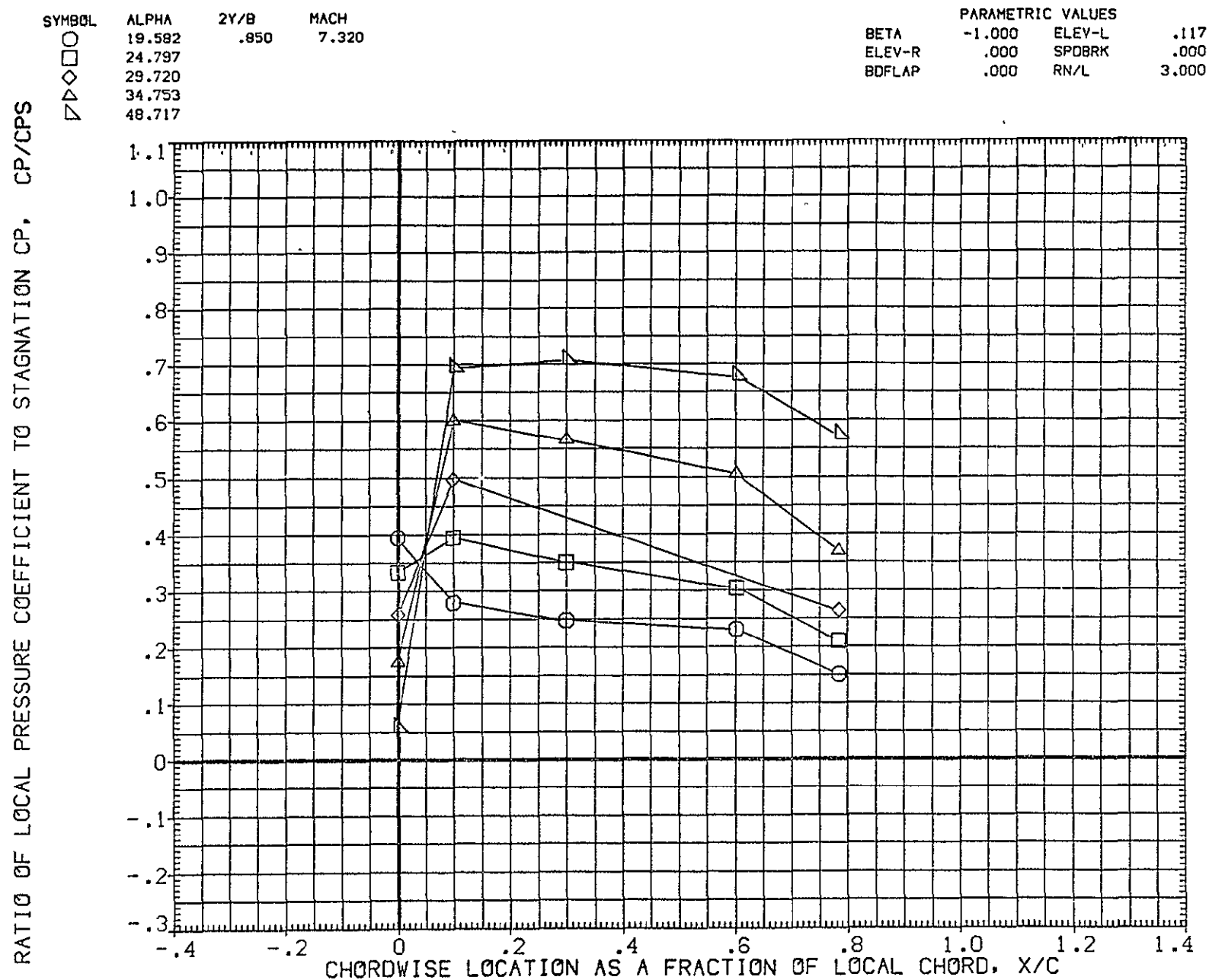


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

○  
□  
◇  
△  
▽

19.582  
24.797  
29.720  
34.753  
48.717

.950

7.320

BETA

-1.000

ELEV-L

.117

ELEV-R

.000

SPDRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

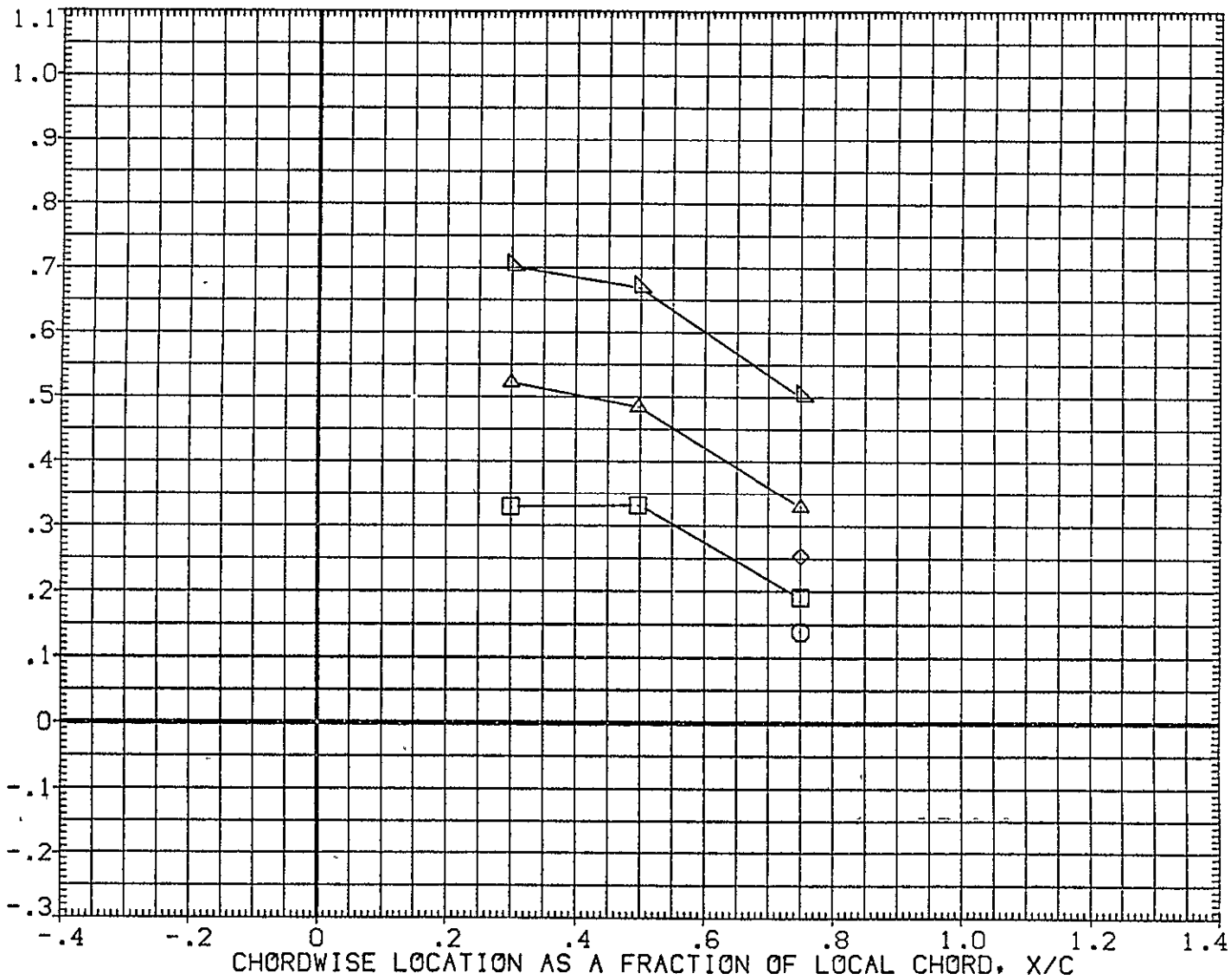


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL20)

SYMBOL

ALPHA	2Y/B	MACH
19.744	.250	10.290
24.851		
29.725		
34.881		
39.932		
44.136		

PARAMETRIC VALUES		
BETA	.000	ELEV-L .117
ELEV-R	.000	SPDBRK .000
BOFLAP	.000	RN/L 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$ 
 $\diamond$ 
 $\triangle$ 
 $\square$ 
 $\square$ 
 $\square$ 
 $\square$

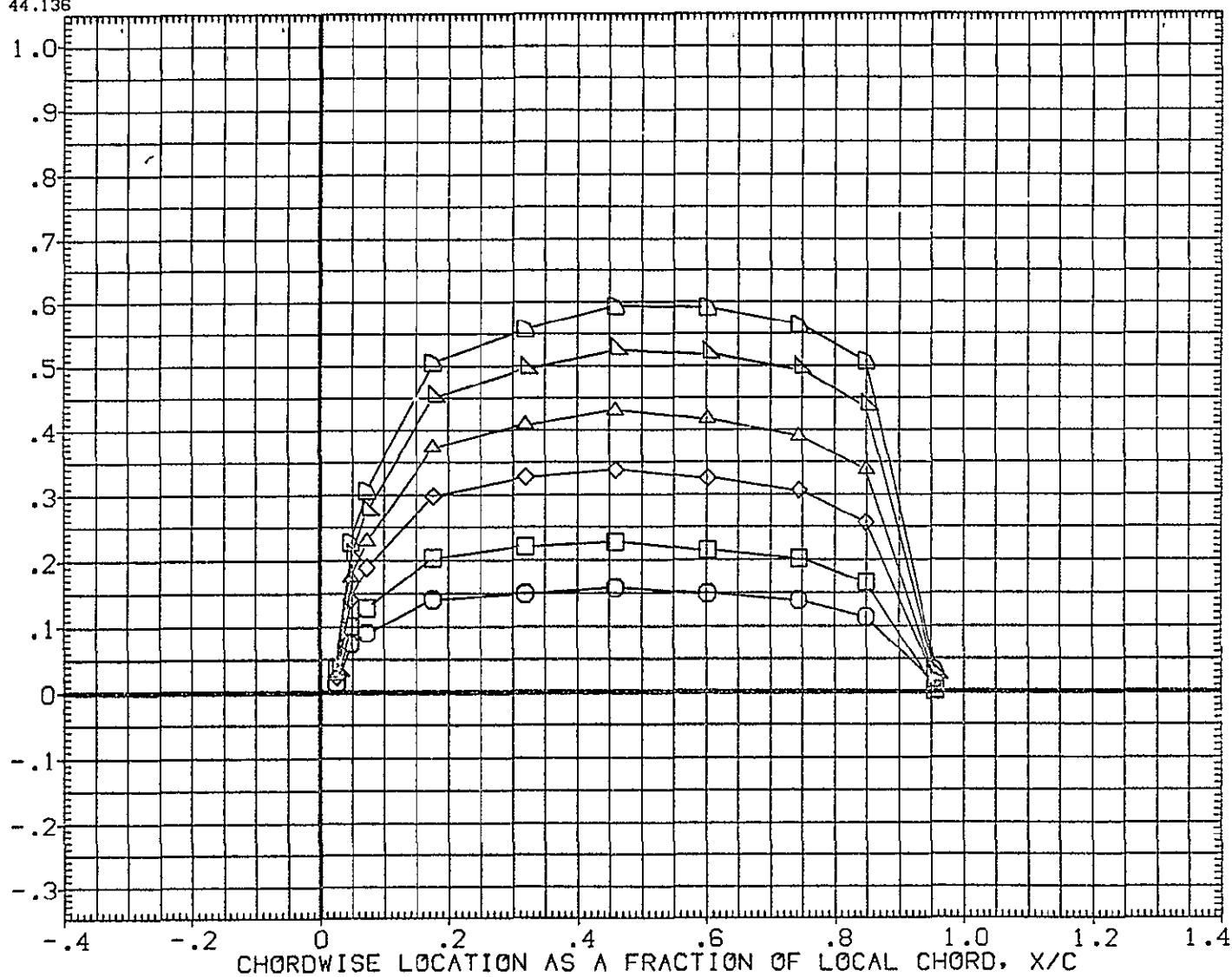


FIG. 5 WING LOWER SURFACE (LT)

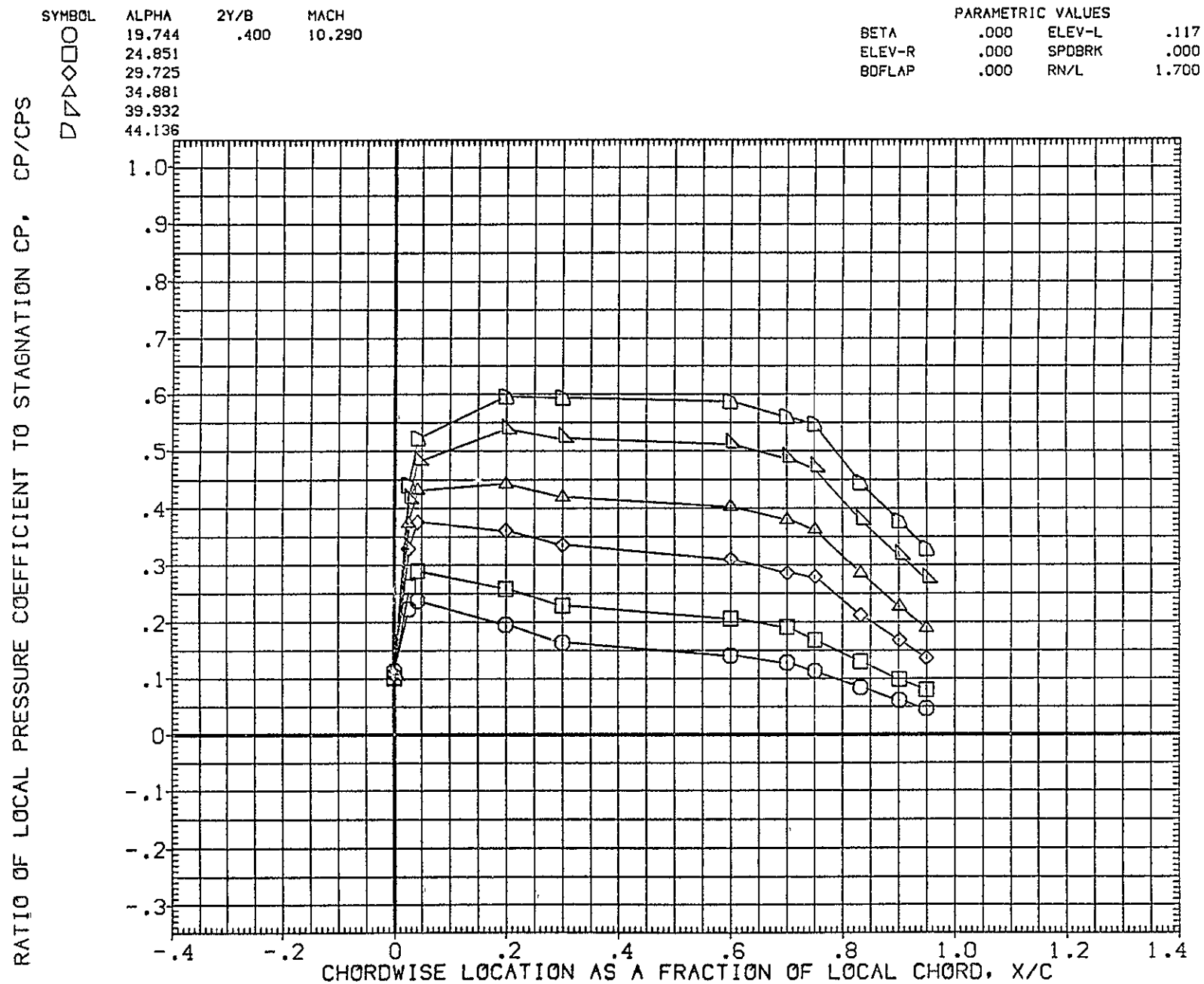


FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT)(LEZL20)

SYMBOL

ALPHA	2Y/B	MACH
19.744	.500	10.290
24.851		
29.725		
34.881		
39.932		
44.136		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\triangle$   $\diamond$   $\square$   $\square$

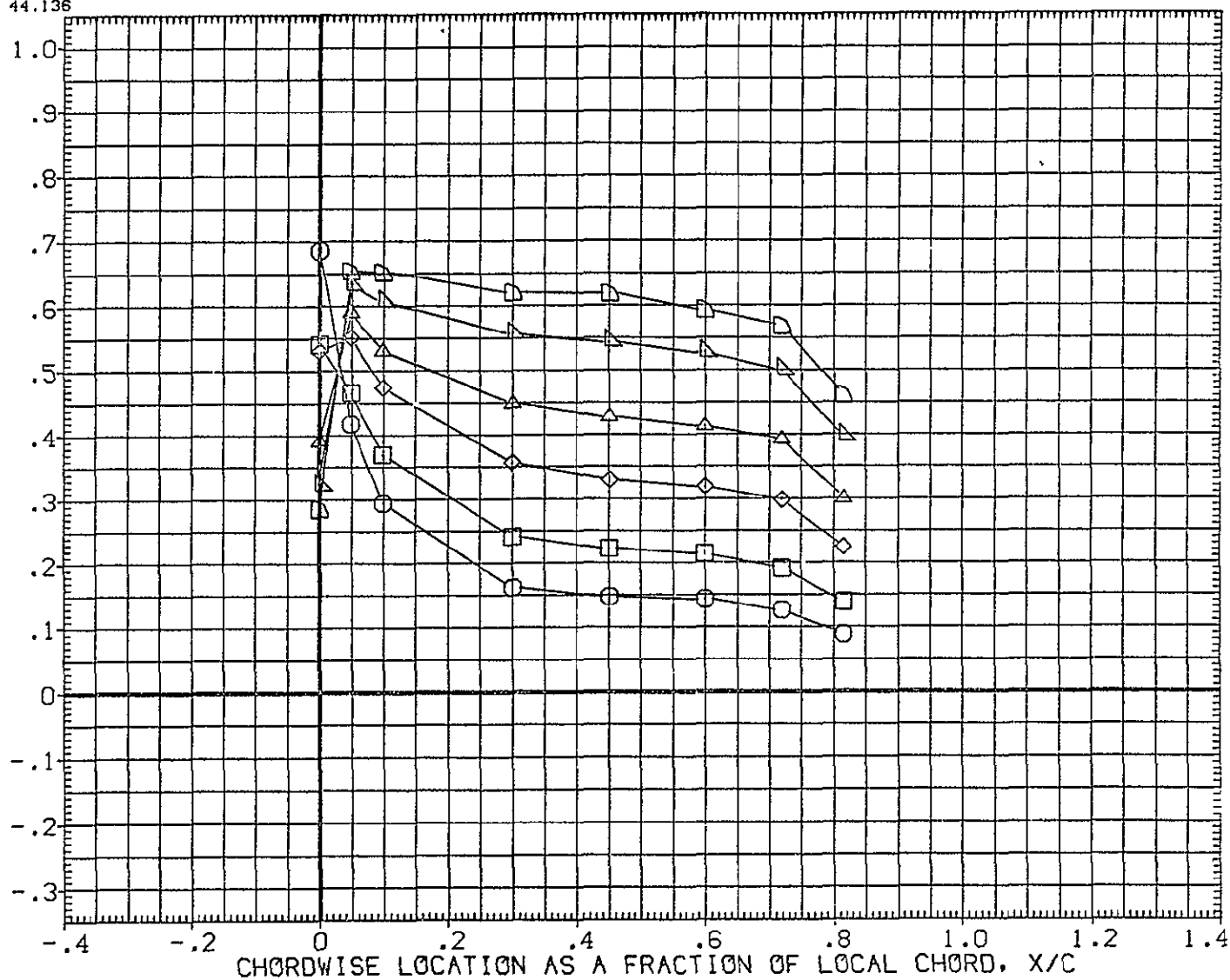


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

○  
 □  
 ◇  
 △  
 ▽  
 ▽

19.744  
 24.851  
 29.725  
 34.881  
 39.932  
 44.136

.600

10.290

BETA  
 ELEV-R  
 BDFLAP

.000  
 .000  
 .000

ELEV-L  
 SPDBRK  
 RN/L

.117  
 .000  
 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

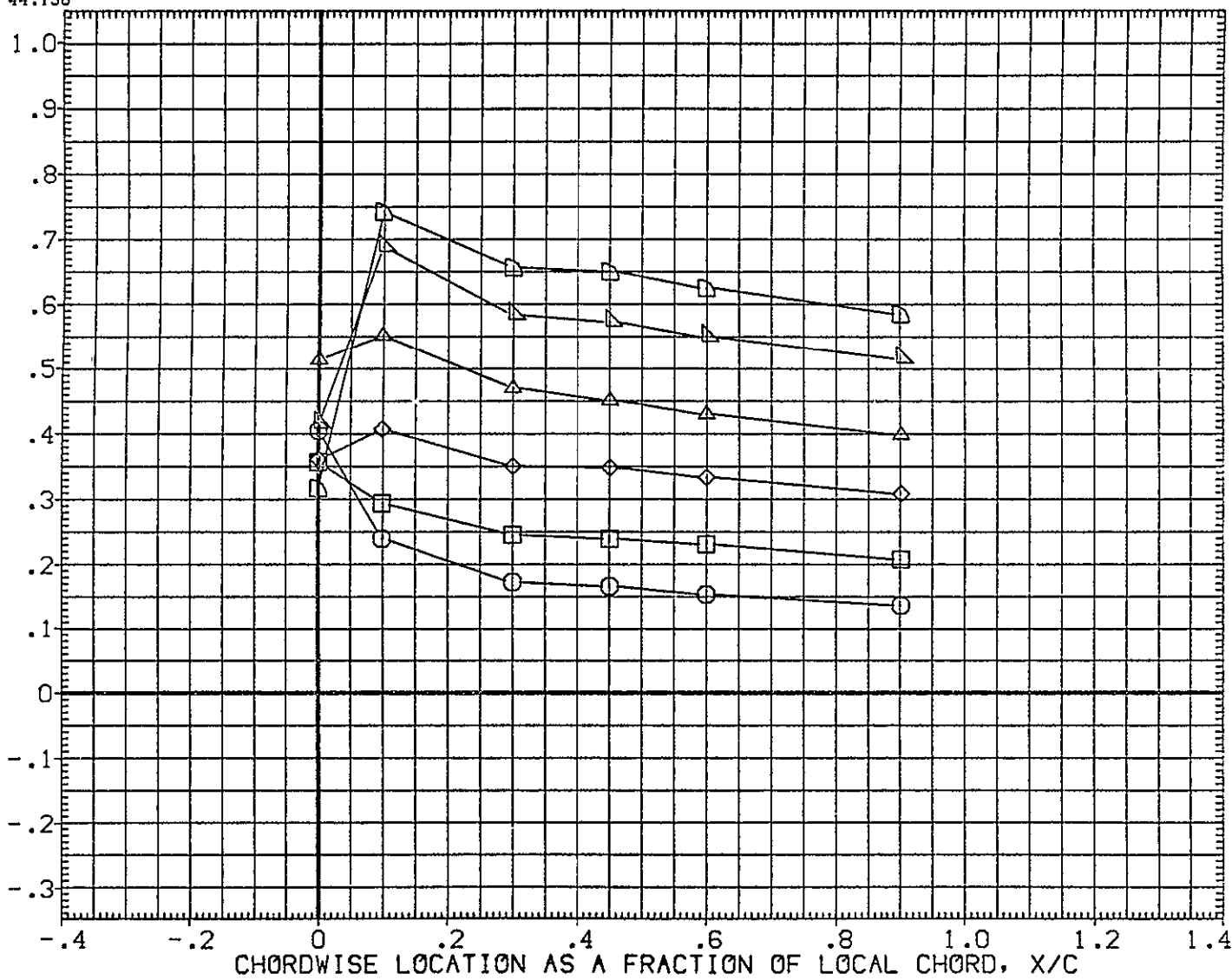


FIG. 5 WING LOWER SURFACE (LT)



# ARC 3.5-198 OH38 140C ORB WING LOWER SURFACE(LT)(LEZL20)

SYMBOL  
○  
□  
◇  
△  
▽  
◇

ALPHA	2Y/B	MACH
19.744	.750	10.290
24.851		
29.725		
34.881		
39.932		
44.136		

PARAMETRIC VALUES		
BETA	.000	ELEV-L .117
ELEV-R	.000	SPDBRK .000
BOFLAP	.000	RN/L 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

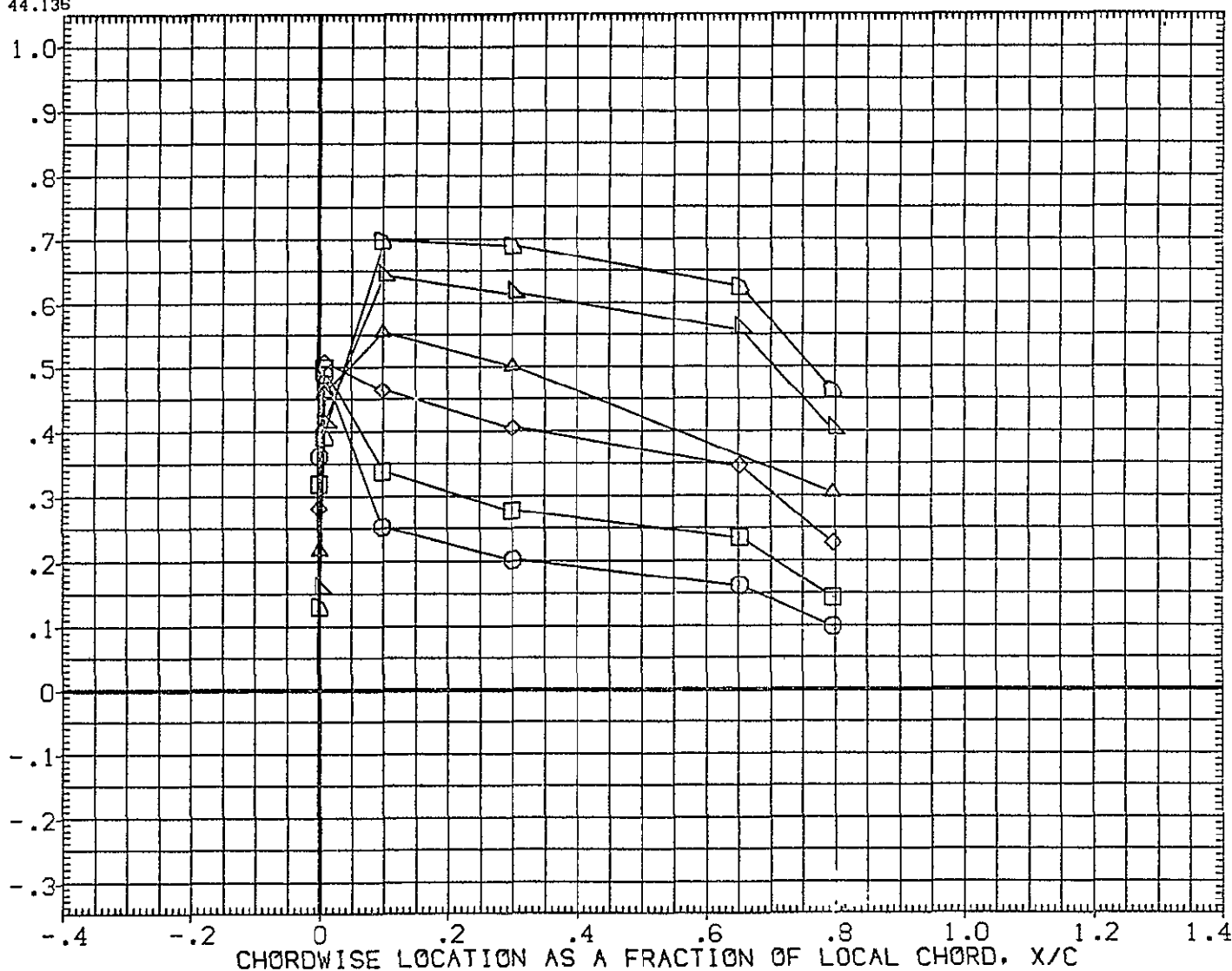


FIG. 5 WING LOWER SURFACE (LT)



FIG. 5 WING LOWER SURFACE (LT)

# ARC 3.5-198 0H38 140C 0RB WING LOWER SURFACE(LT) (LEZL20)

SYMBOL

ALPHA

2Y/B

MACH

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

19.744	.950	10.290
24.851		
29.725		
34.881		
39.932		
44.136		

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP,  $C_p/C_{p0}$

$\square$   $\diamond$   $\triangle$   $\square$   $\diamond$   $\triangle$   $\square$   $\diamond$   $\triangle$

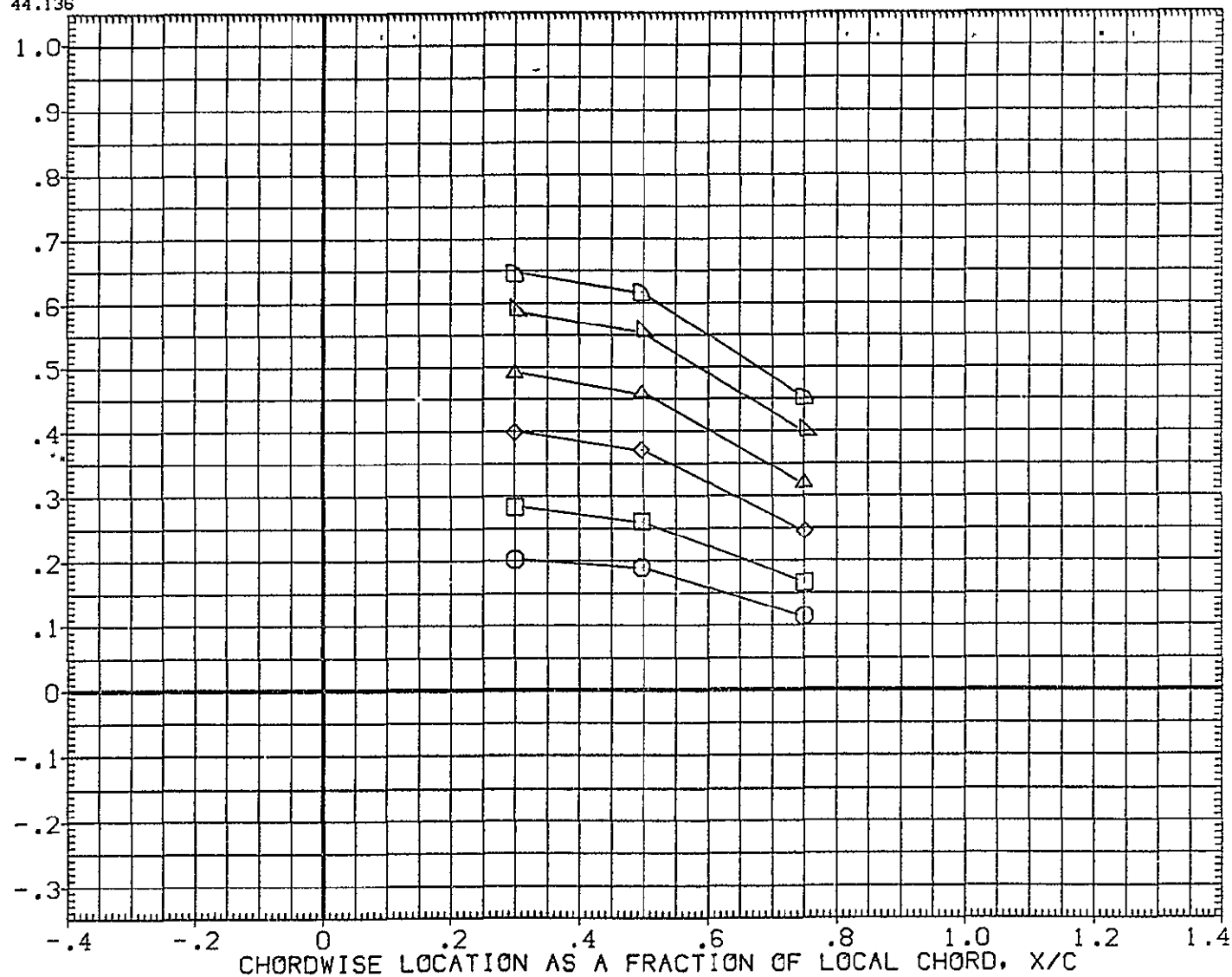


FIG. 5 WING LOWER SURFACE (LT)

SYMBOL

ROW NO

MACH

ALPHA

○  
□  
◇  
△1.000  
2.000  
3.000  
4.000

7.320

19.261

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPOBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP: CP/CPs

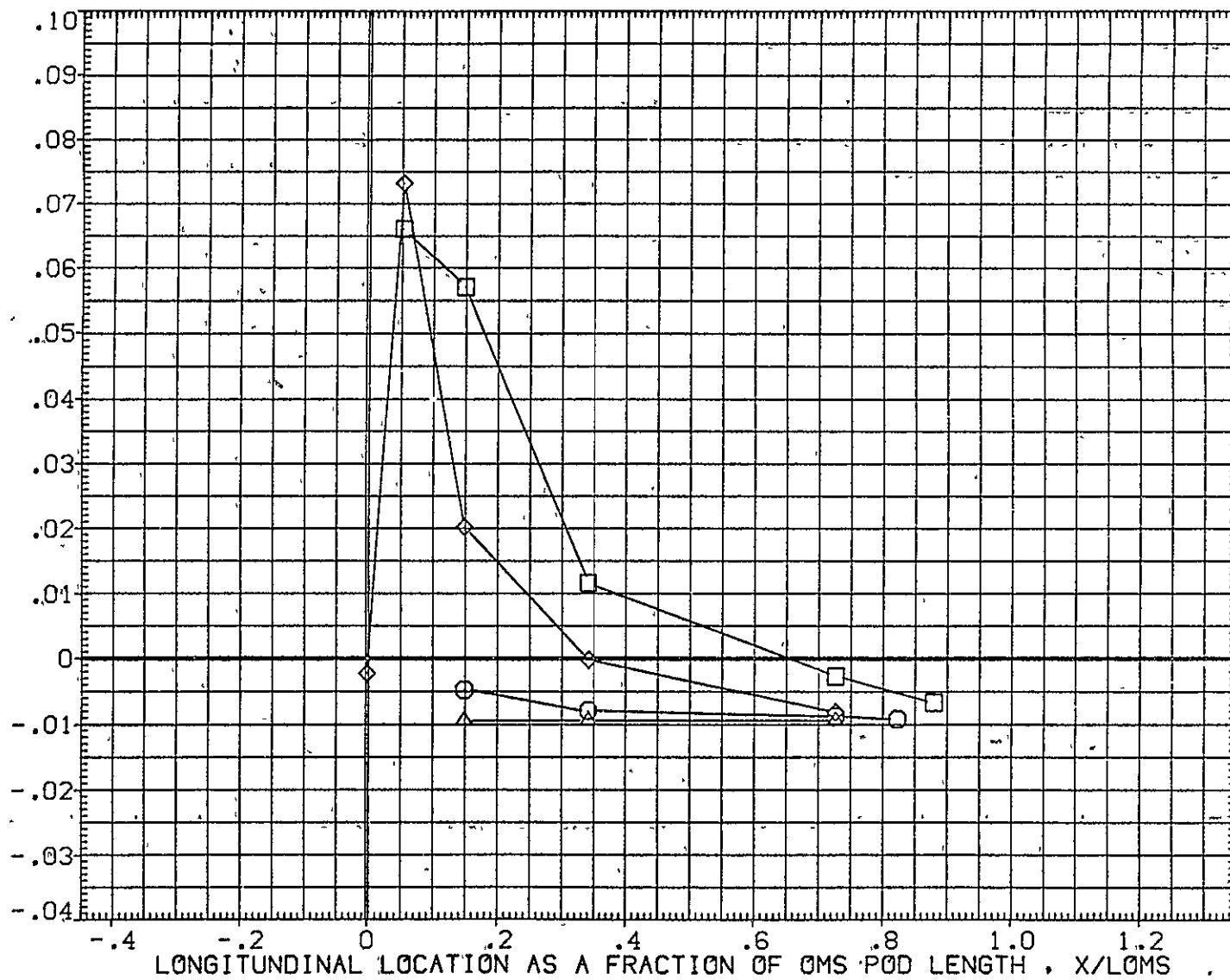


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(BEZC35)

SYMBOL

ROW NO

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

○  
□  
◇  
△

1.000  
2.000  
3.000  
4.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

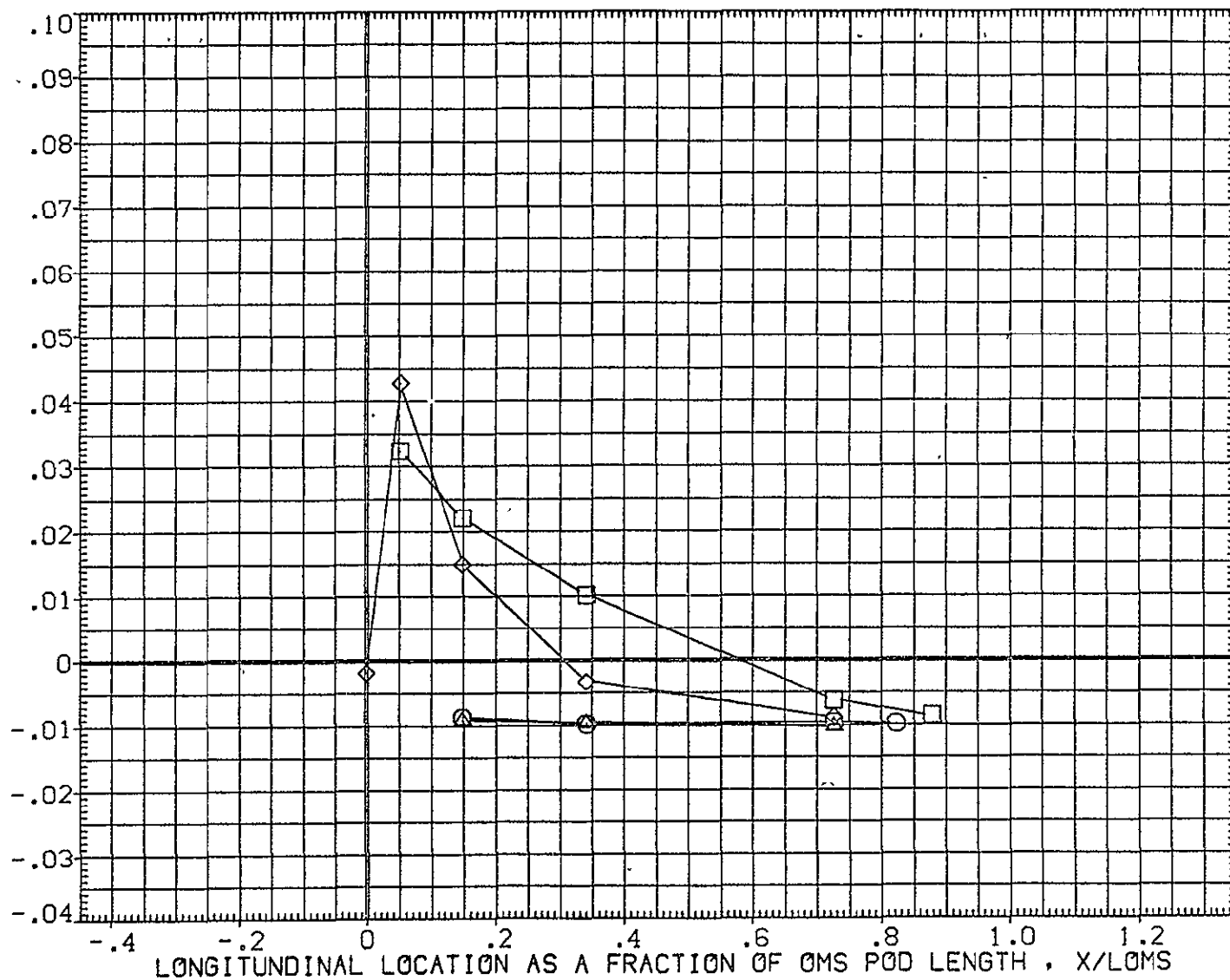


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO  
1.000  
2.000  
3.000  
4.000

MACH  
7.320

ALPHA  
29.509

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

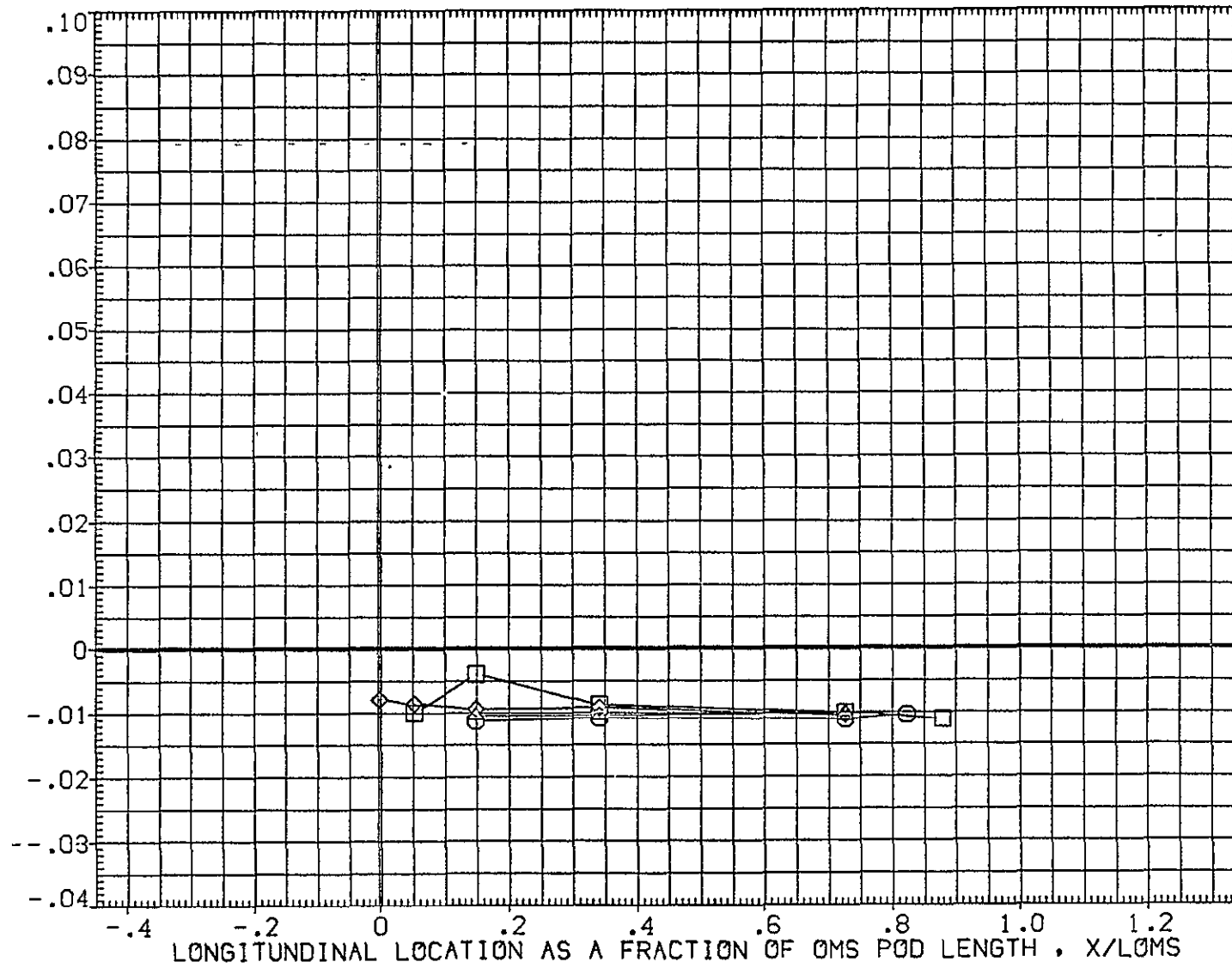


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	39.947
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

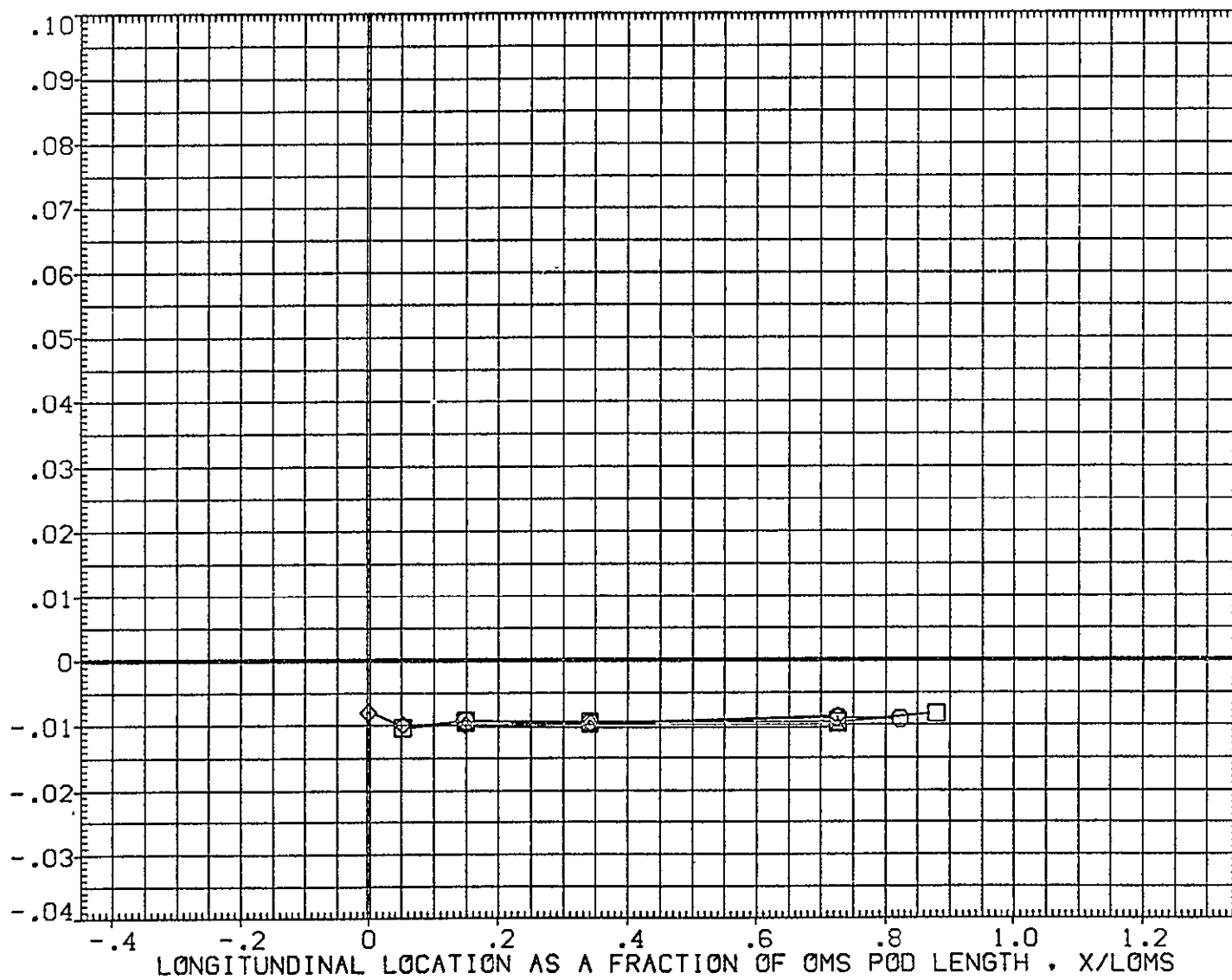


FIG. 6 OMS PODS

ARC 3.5-198 0438 140C 0RB 0MS PODS

(BEZC35)

SYMBOL

○  
□  
◇  
△

ROW NO

1.000  
2.000  
3.000  
4.000

MACH

7.320

ALPHA

34.843

PARAMETRIC VALUES

BETA	000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

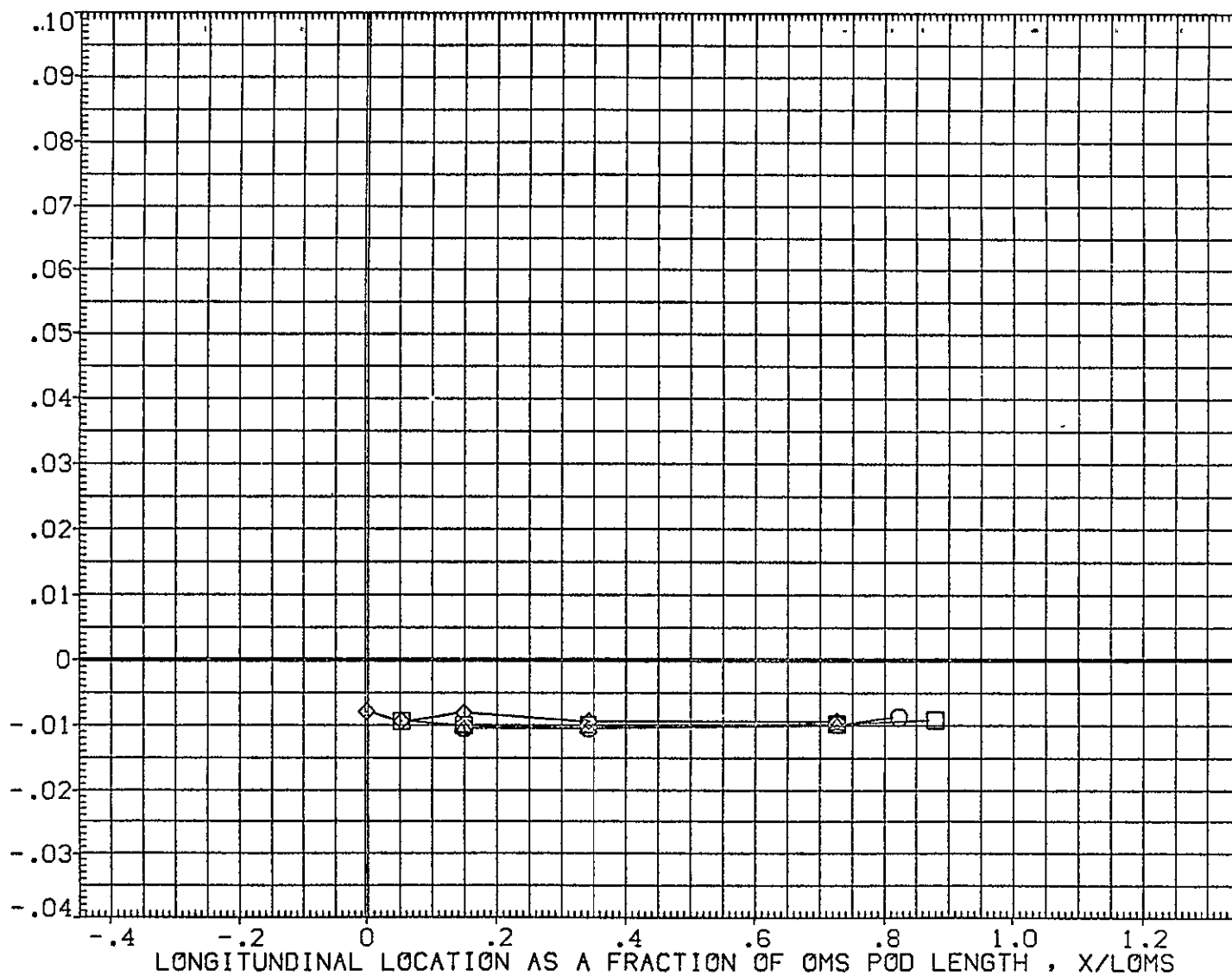


FIG. 6 OMS PODS



ARC 3.5-198 0H38 140C 0RB 0MS PODS

(BEZC35)

SYMBOL

○  
□  
◇  
△

ROW NO

1.000

2.000

3.000

4.000

MACH

7.320

ALPHA

44.132

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

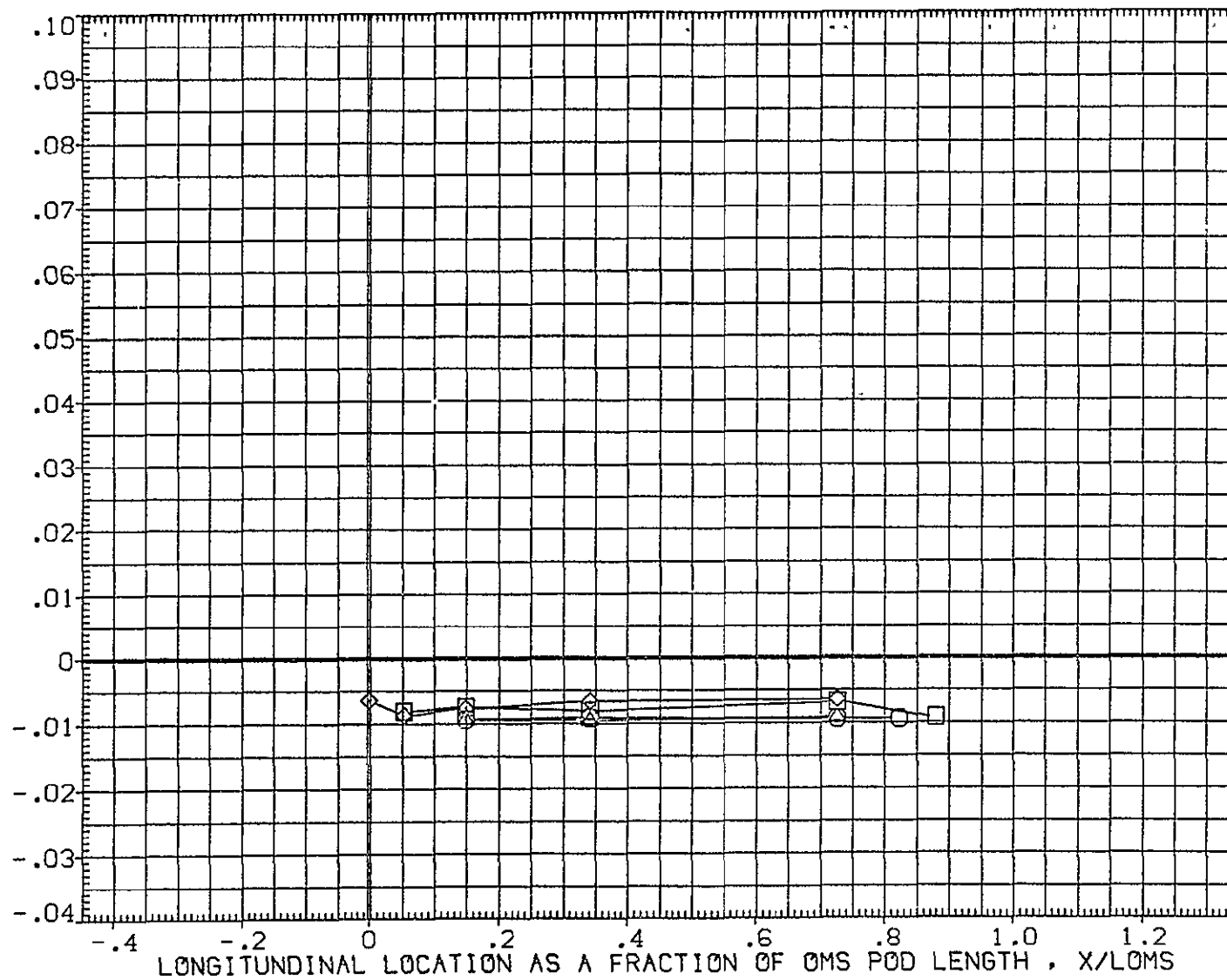


FIG. 6 OMS PODS

SYMBOL

○  
□  
◇  
△

ROW NO

1.000  
2.000  
3.000  
4.000

MACH

7.320

ALPHA

19.694

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

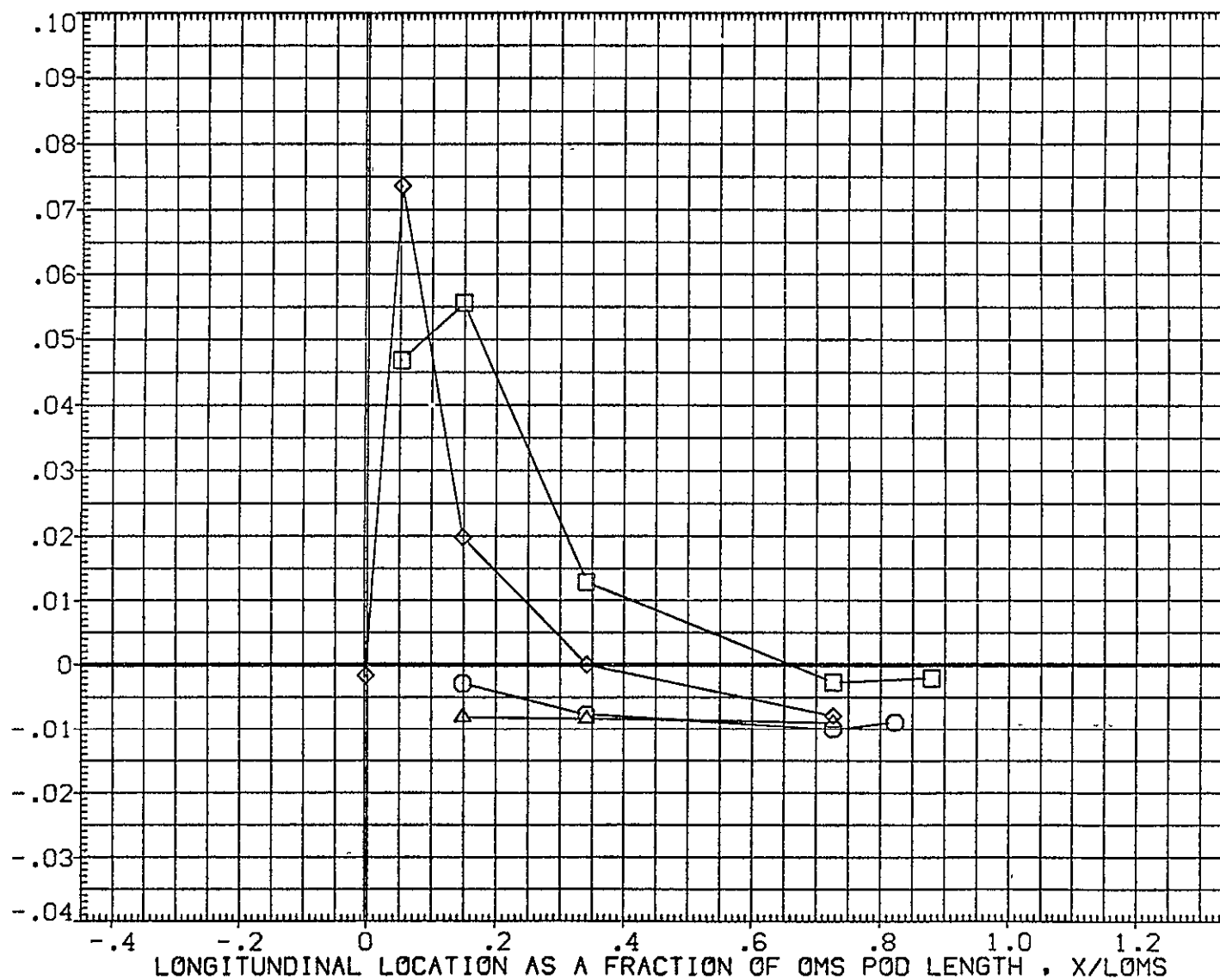


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(PEZC03)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	24.885
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

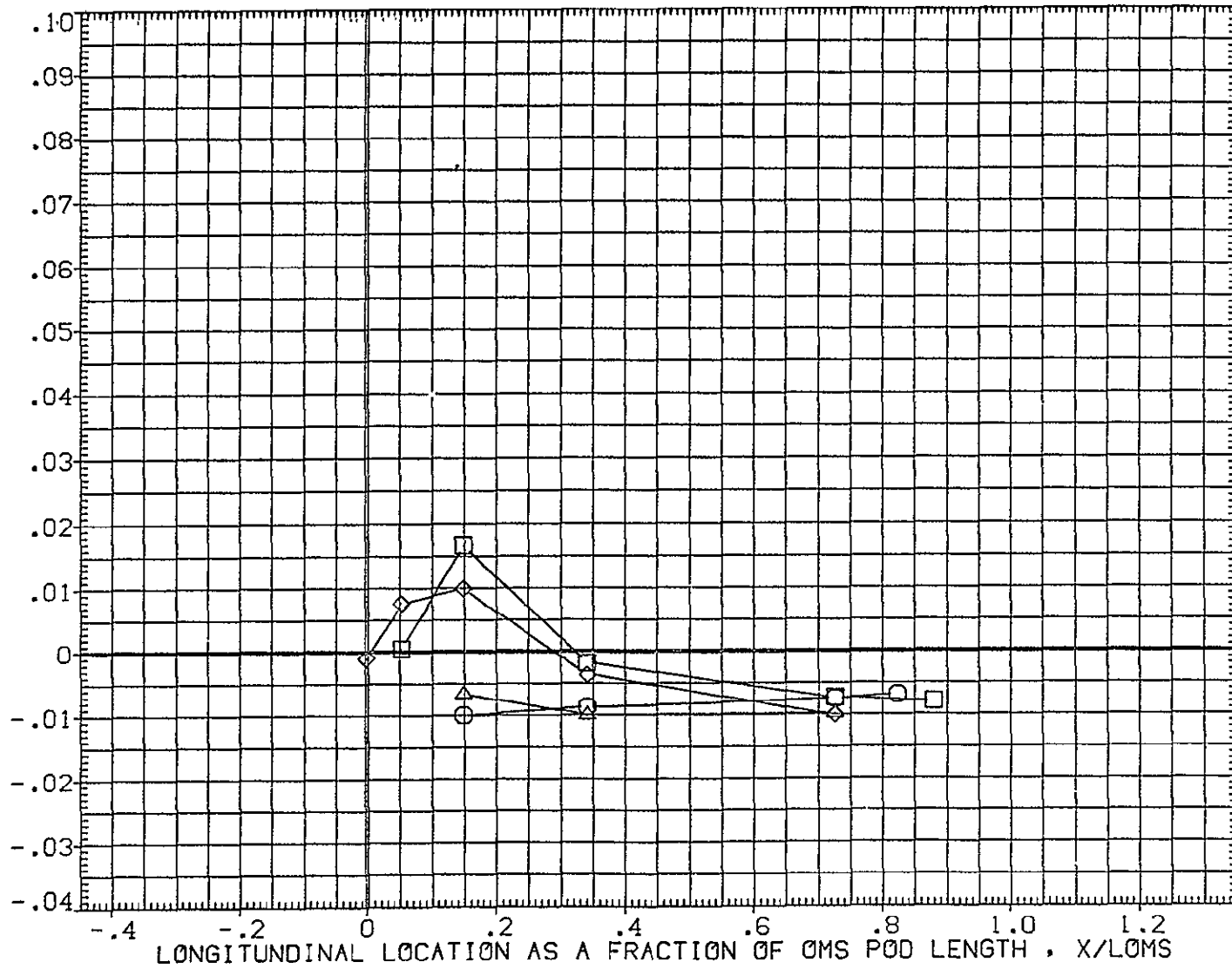


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△ROW NO  
1.000  
2.000  
3.000  
4.000  
MACH  
7.320  
ALPHA  
29.494PARAMETRIC VALUES  
BETA .000 ELEV-L .117  
ELEV-R .000 SPOBRK .000  
BOFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

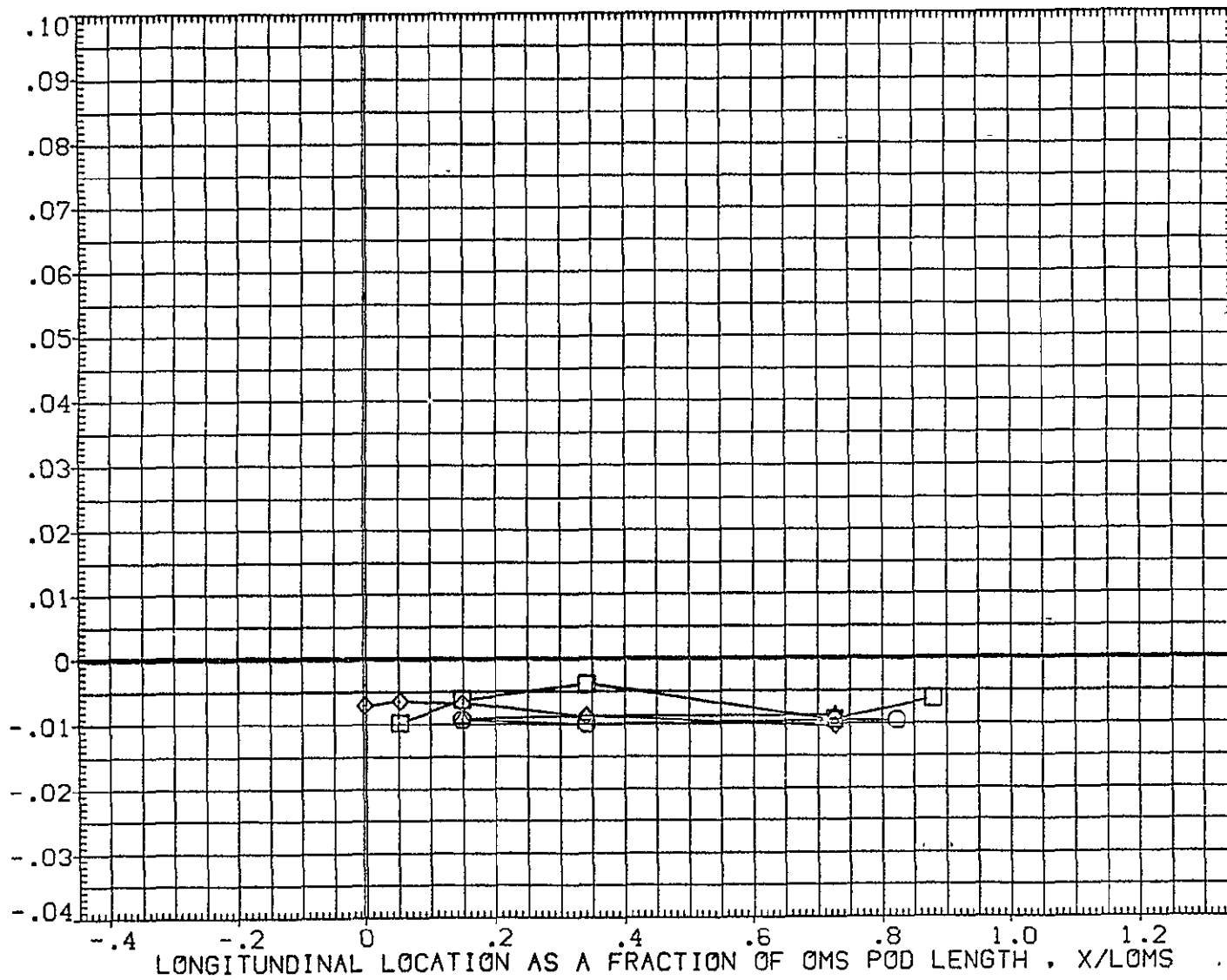


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(PEZC03)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	34.774
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

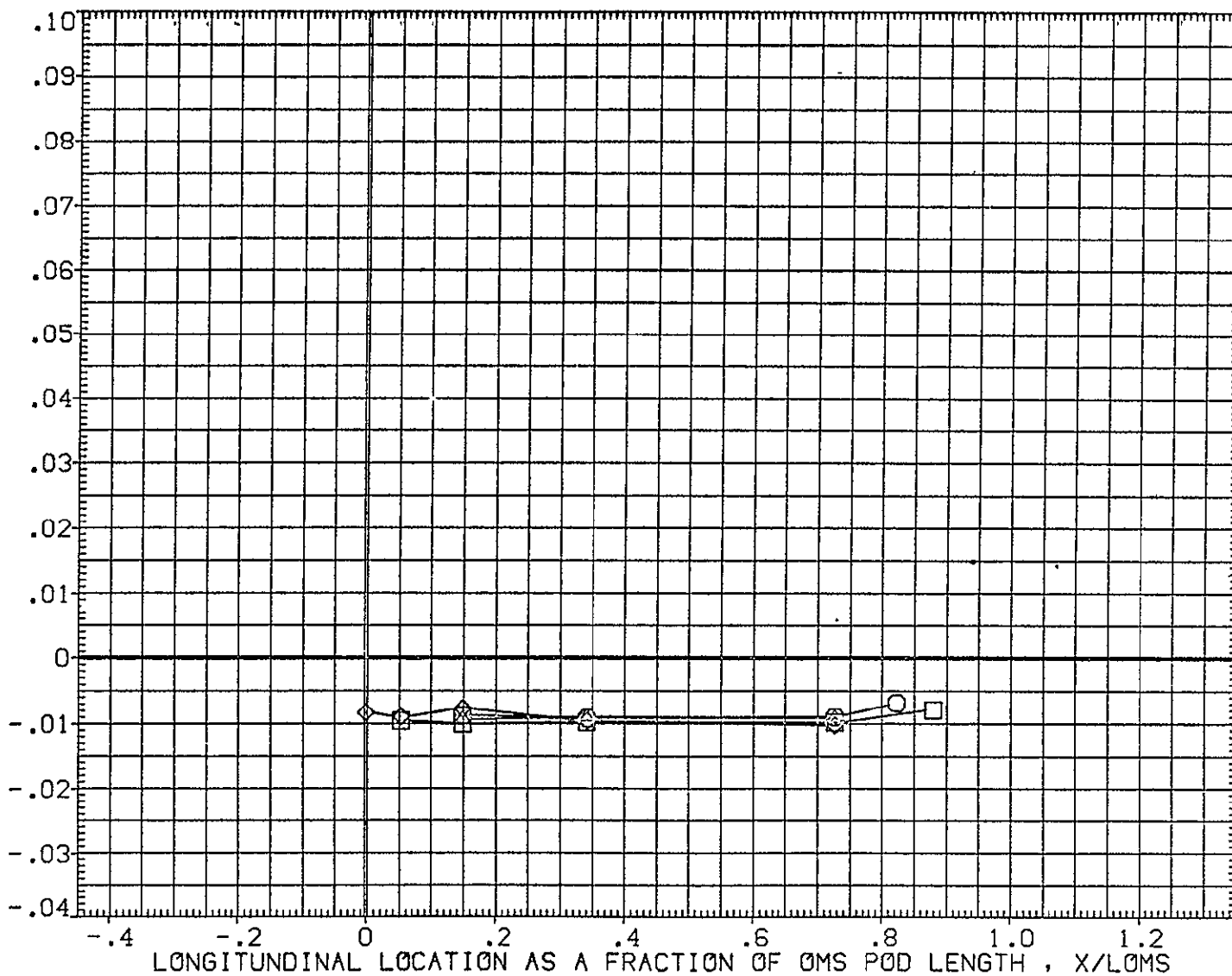


FIG. 6 OMS PODS

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ORIGINAL PAGE IS POOR

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	39.947
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

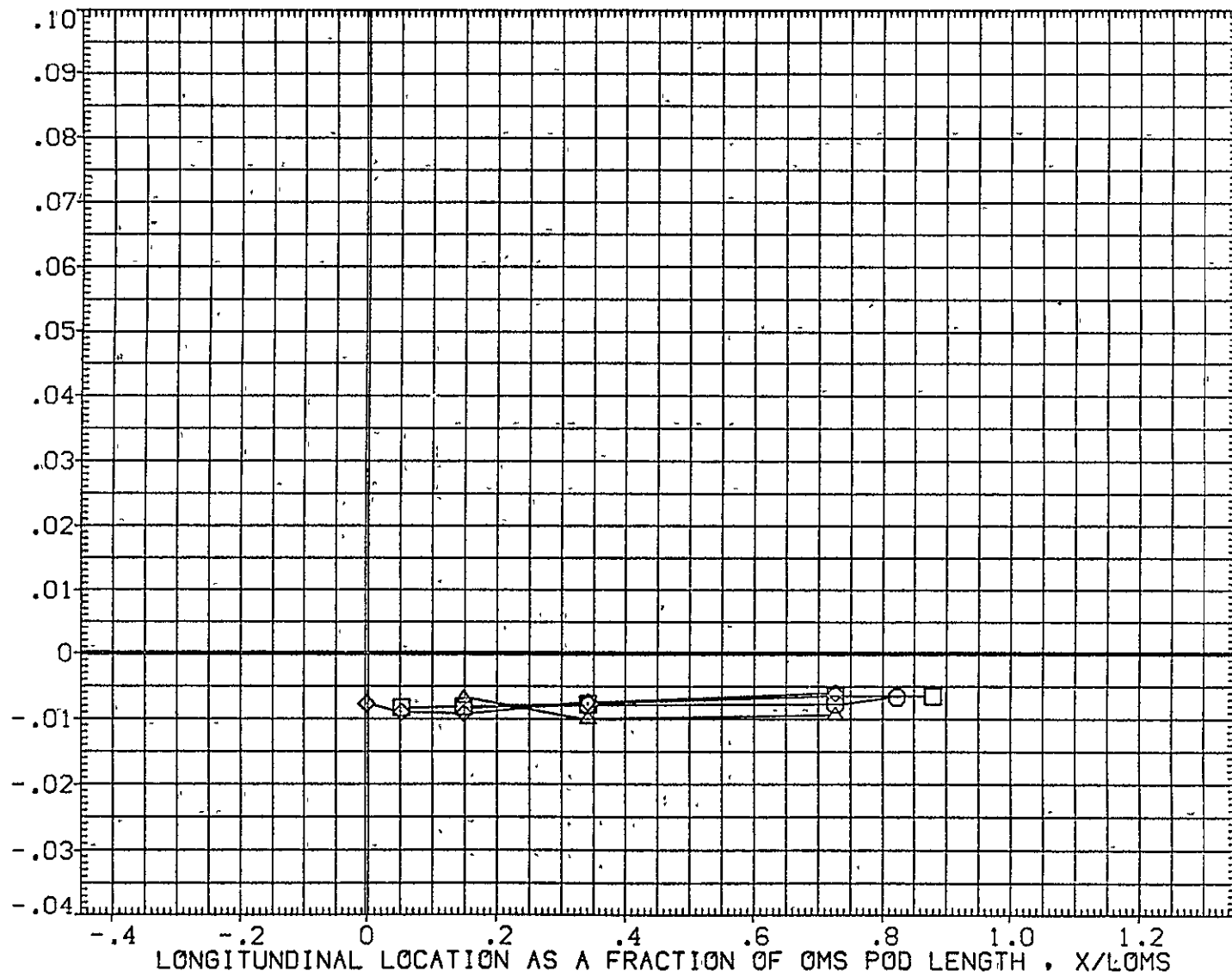


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(PEZC03)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	44.104
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

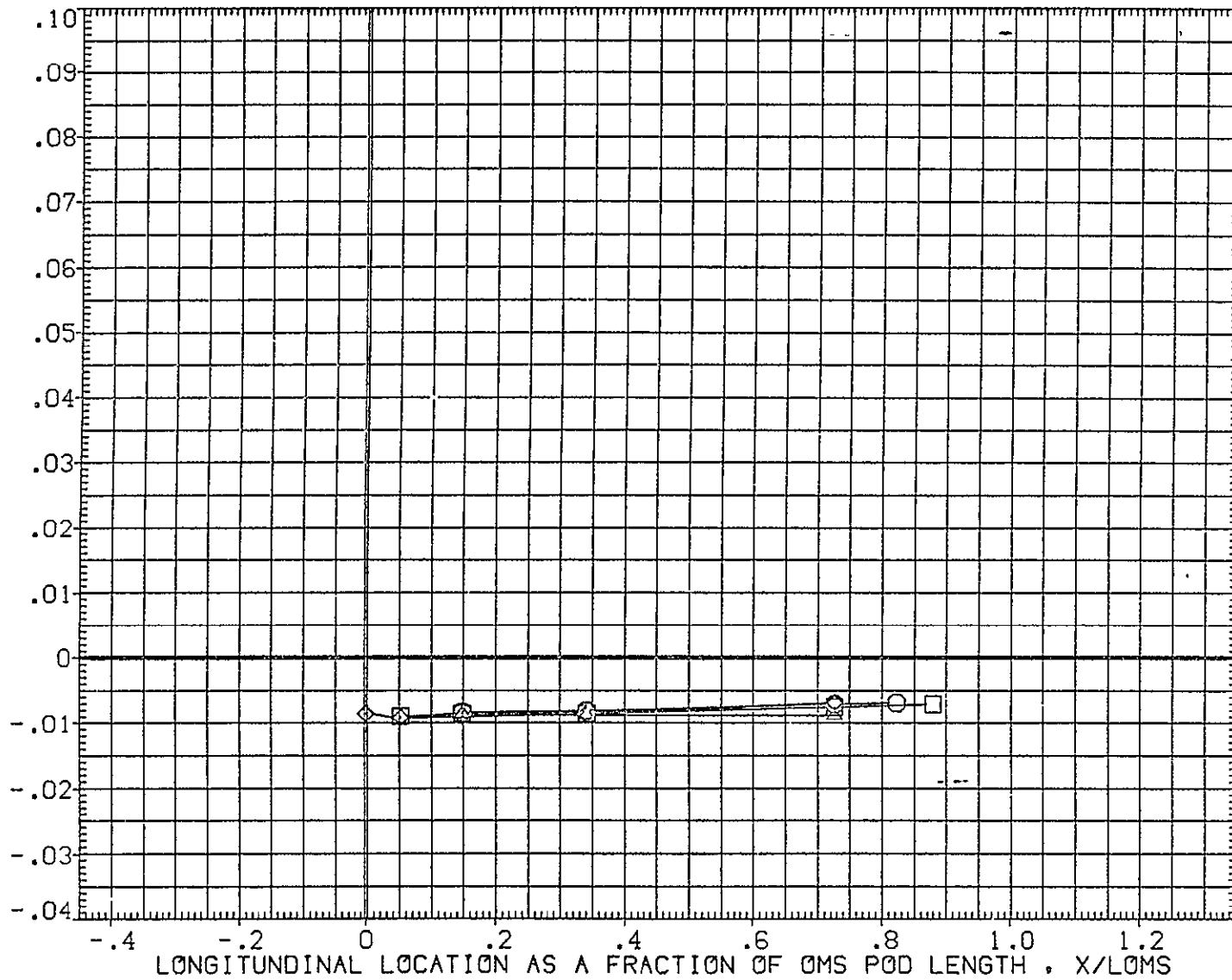


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO  
1.000  
2.000  
3.000  
4.000

MACH  
7.320

ALPHA  
19.776

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

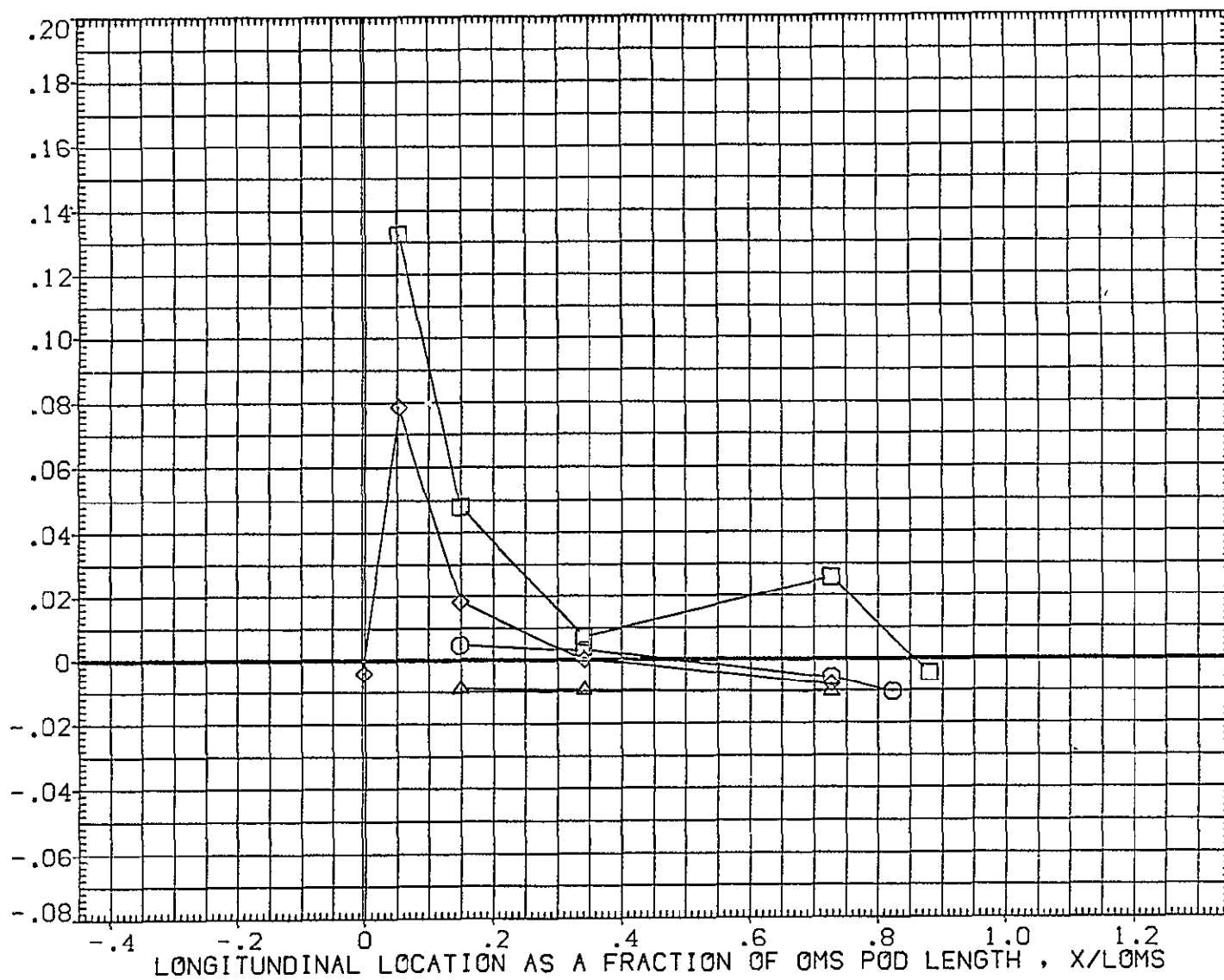


FIG. 6 OMS PODS



ARC 3.5-198 OH38 140C ORB OMS PODS

(CEZC04)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	24.809
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

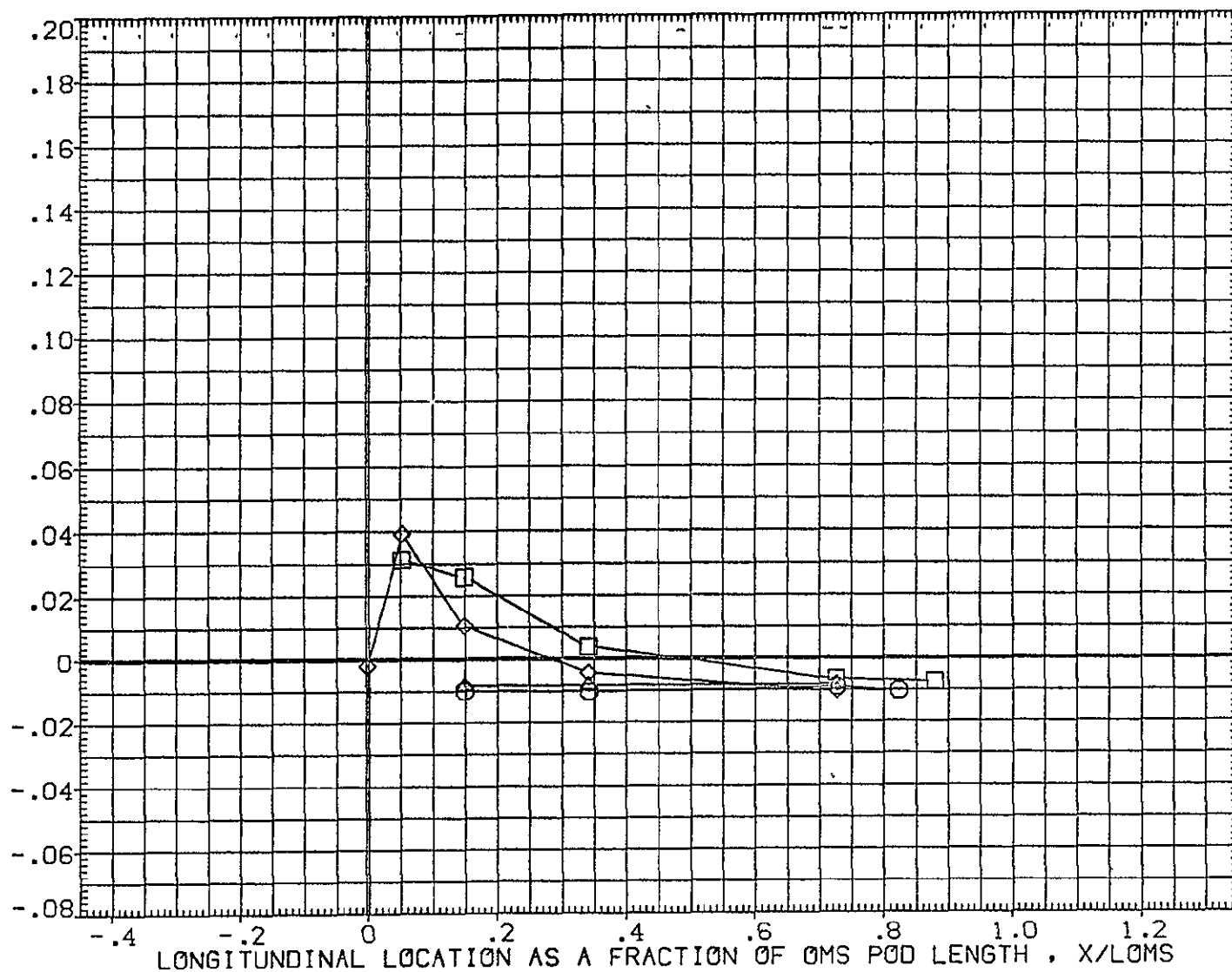


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO  
1.000  
2.000  
3.000  
4.000

MACH  
7.320

ALPHA  
29.649

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

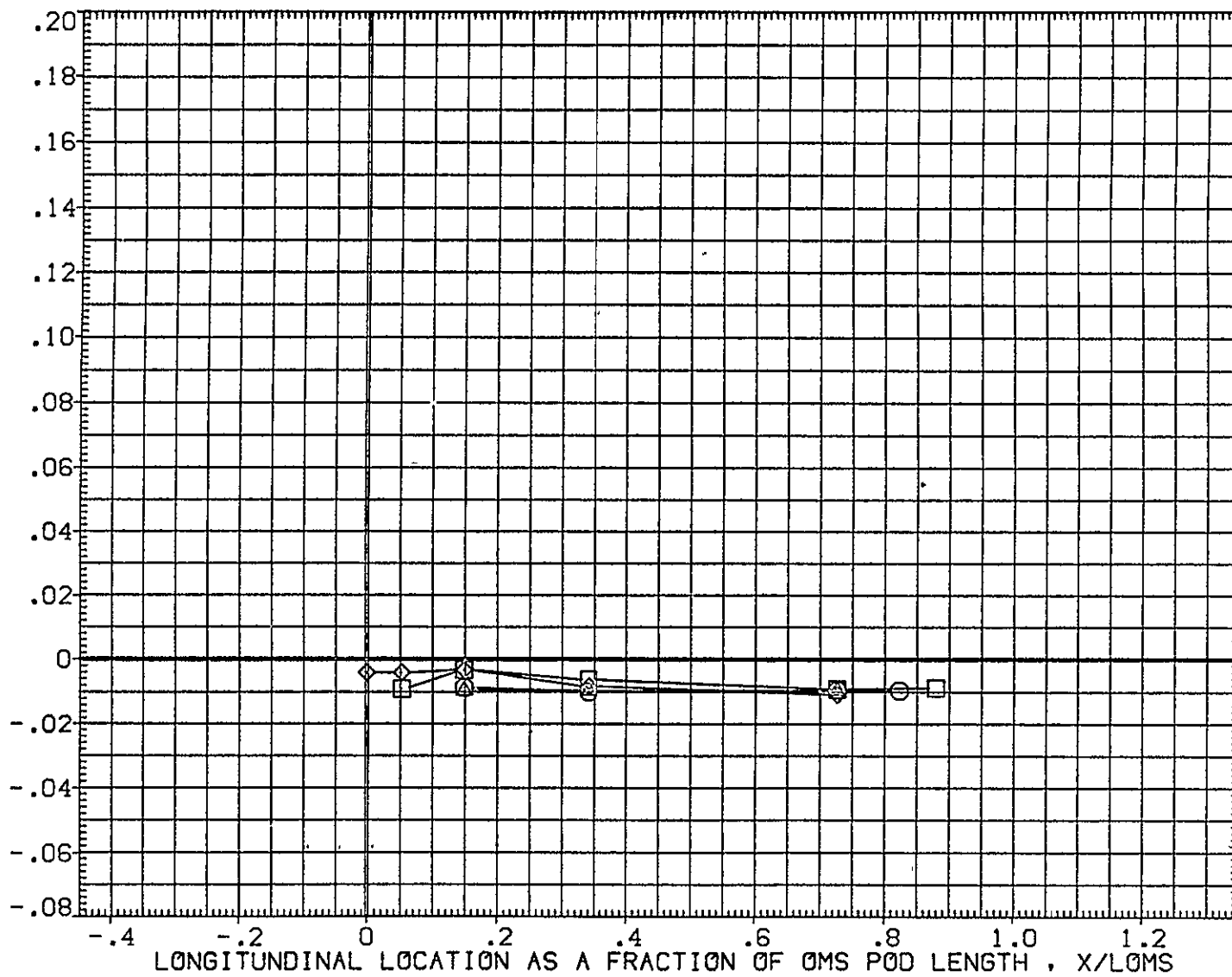


FIG. 6 OMS PODS

ARC 3.5-198 0438 140C 0RB 0MS PODS

(CEZC04)

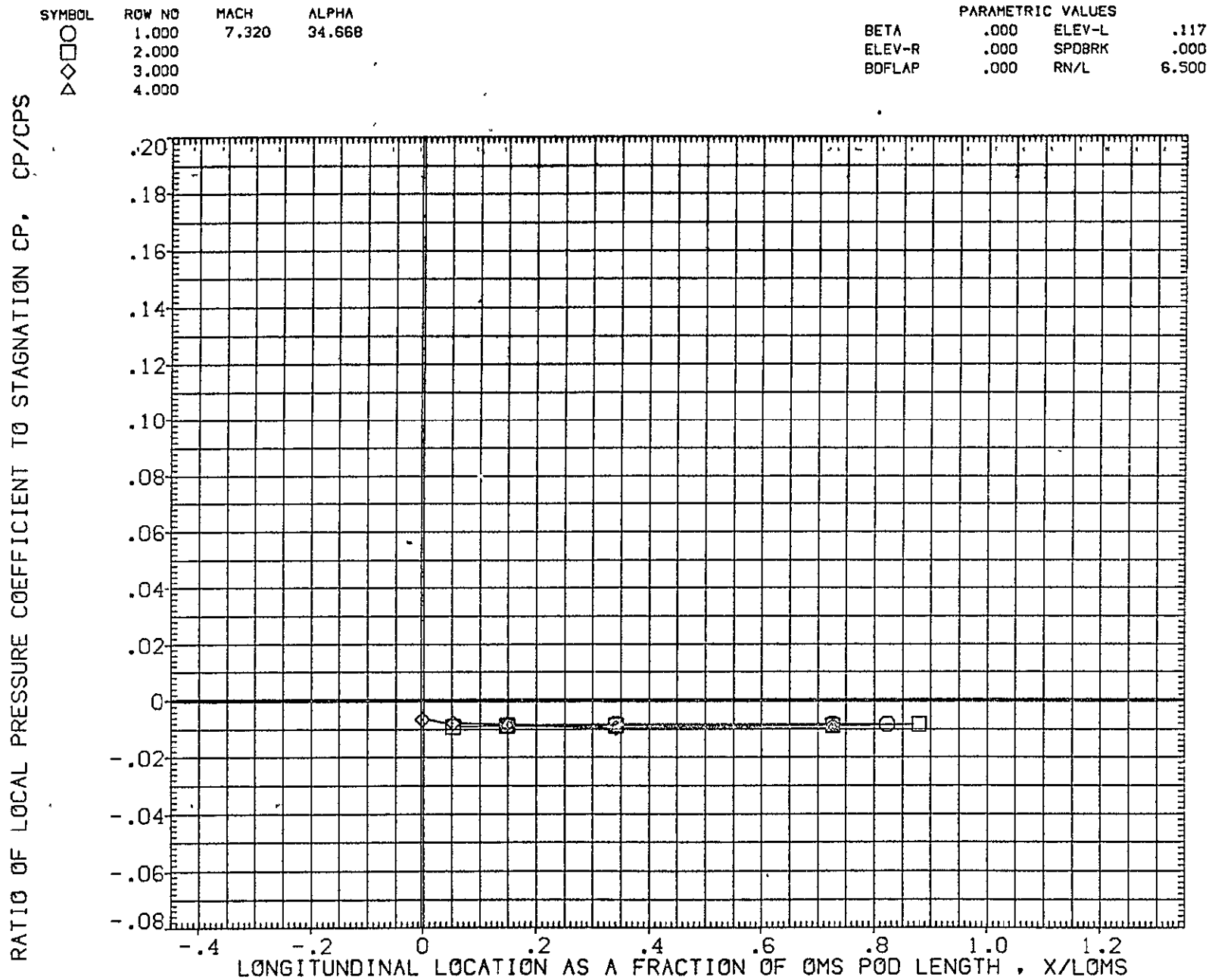


FIG. 6 0MS PODS

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	39.840
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

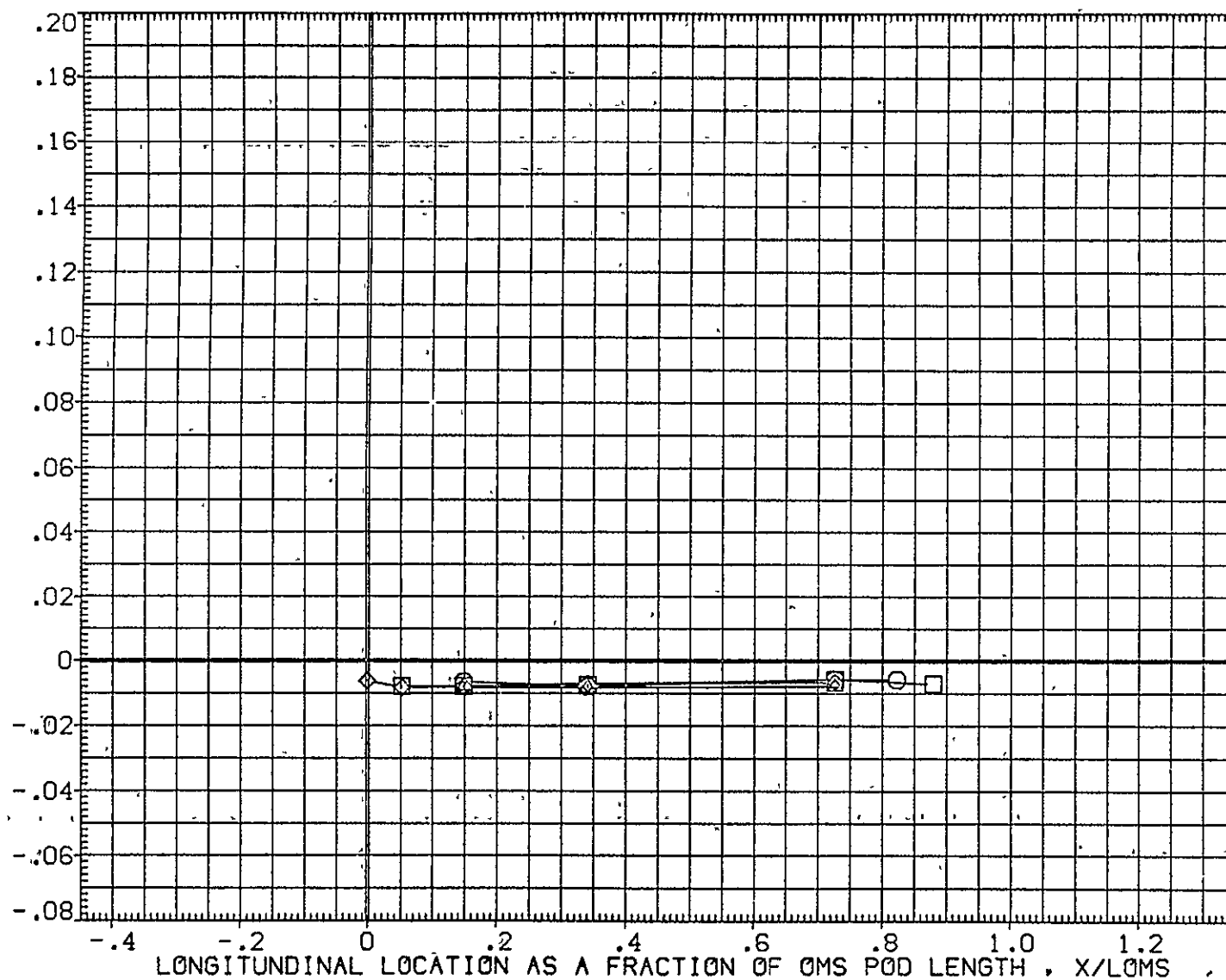


FIG. 6 OMS PODS

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	44.090
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

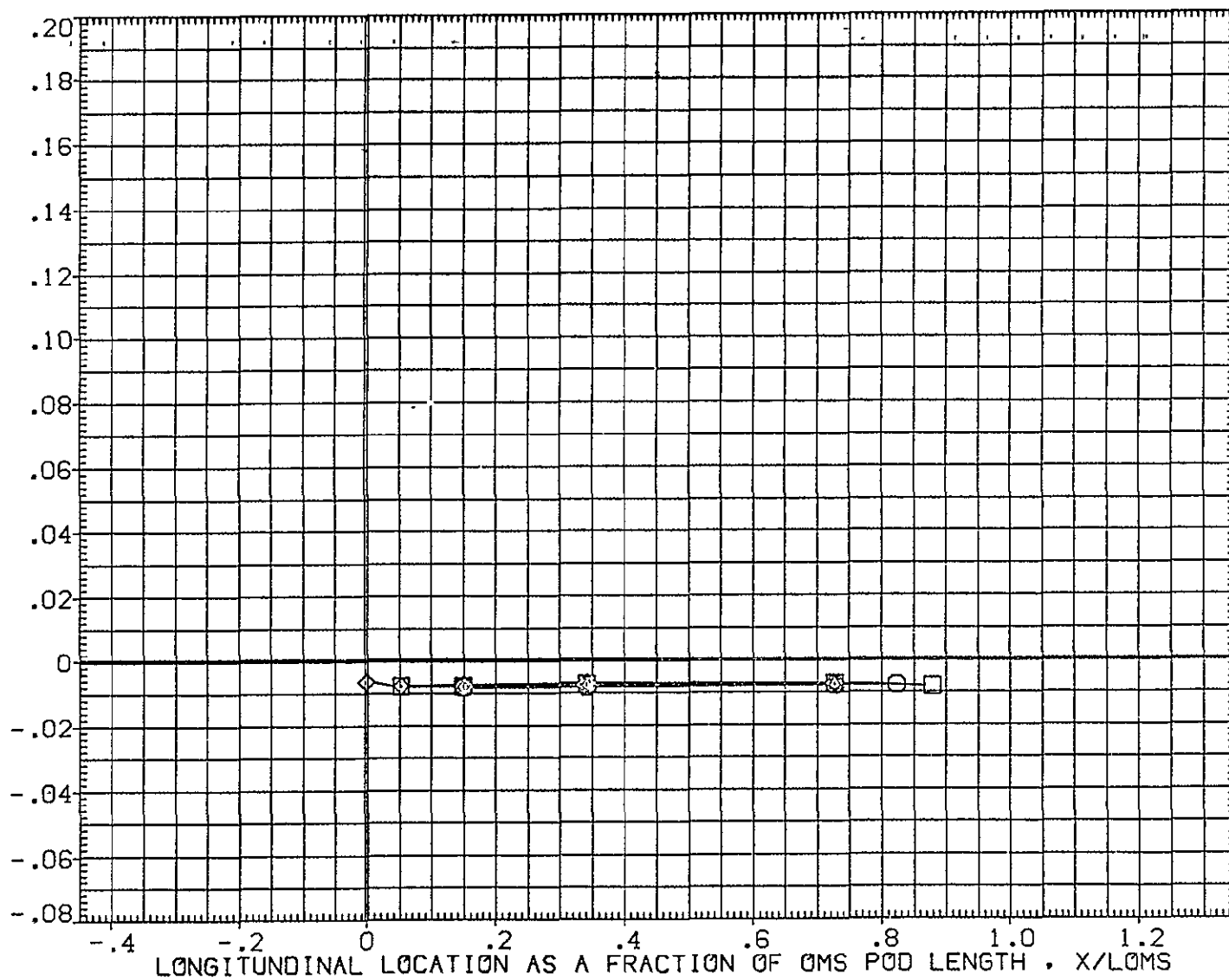


FIG. 6 OMS PODS

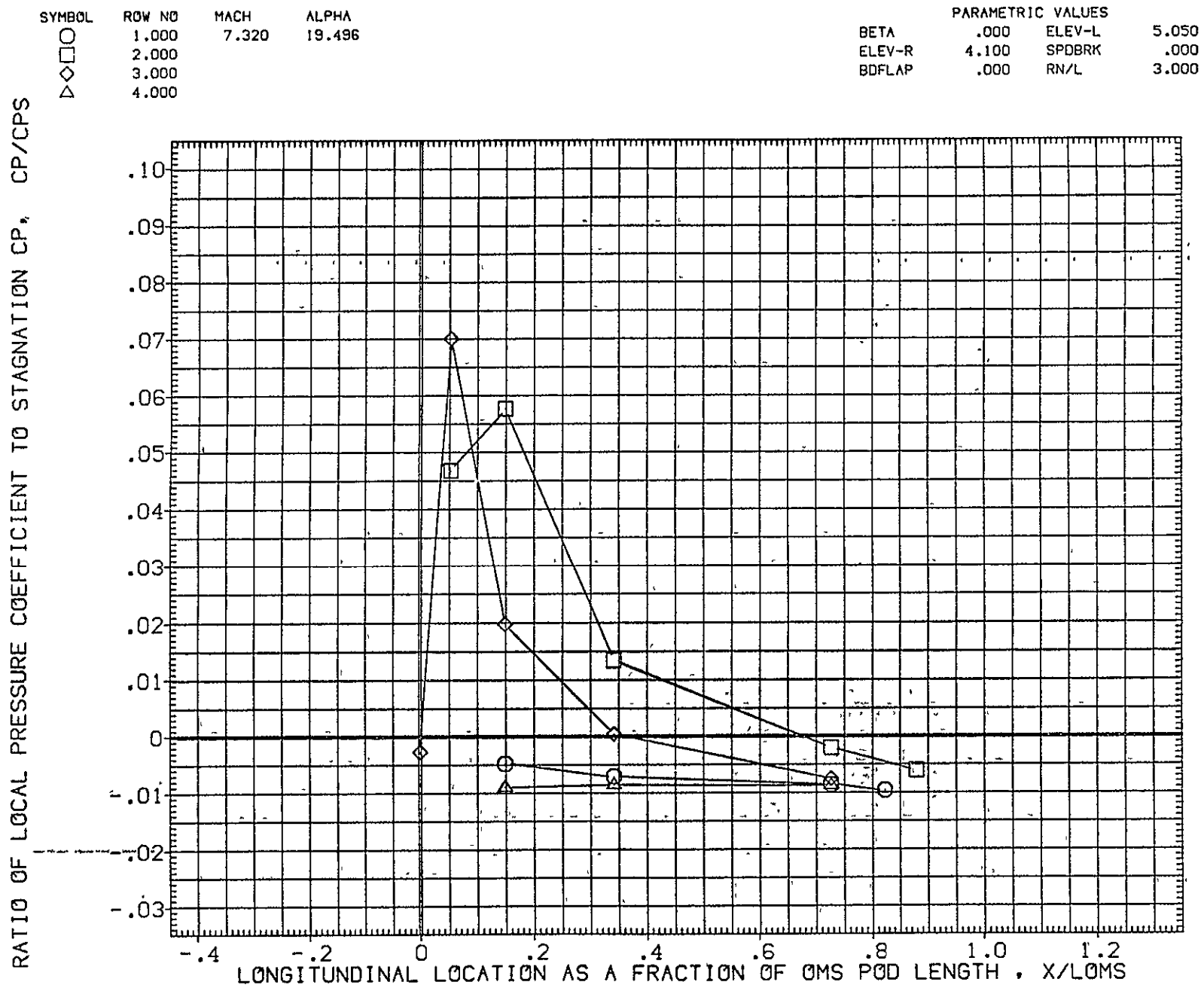


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(CEZC05)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	29.560
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

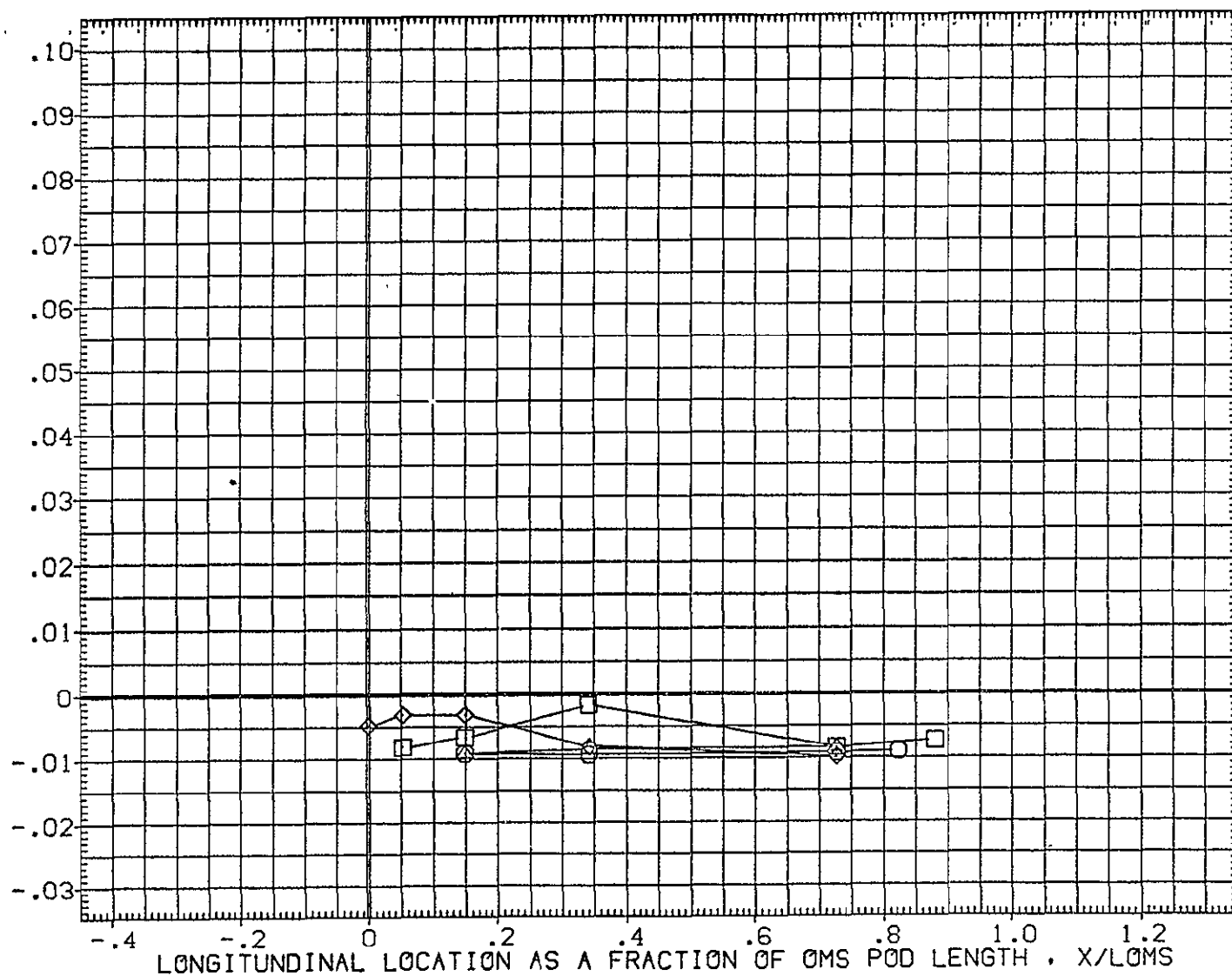


FIG. 6 OMS PODS

SYMBOL

ROW NO

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

$\Delta$   $\square$   $\circ$   
 $\diamond$

1.000  
 2.000  
 3.000  
 4.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

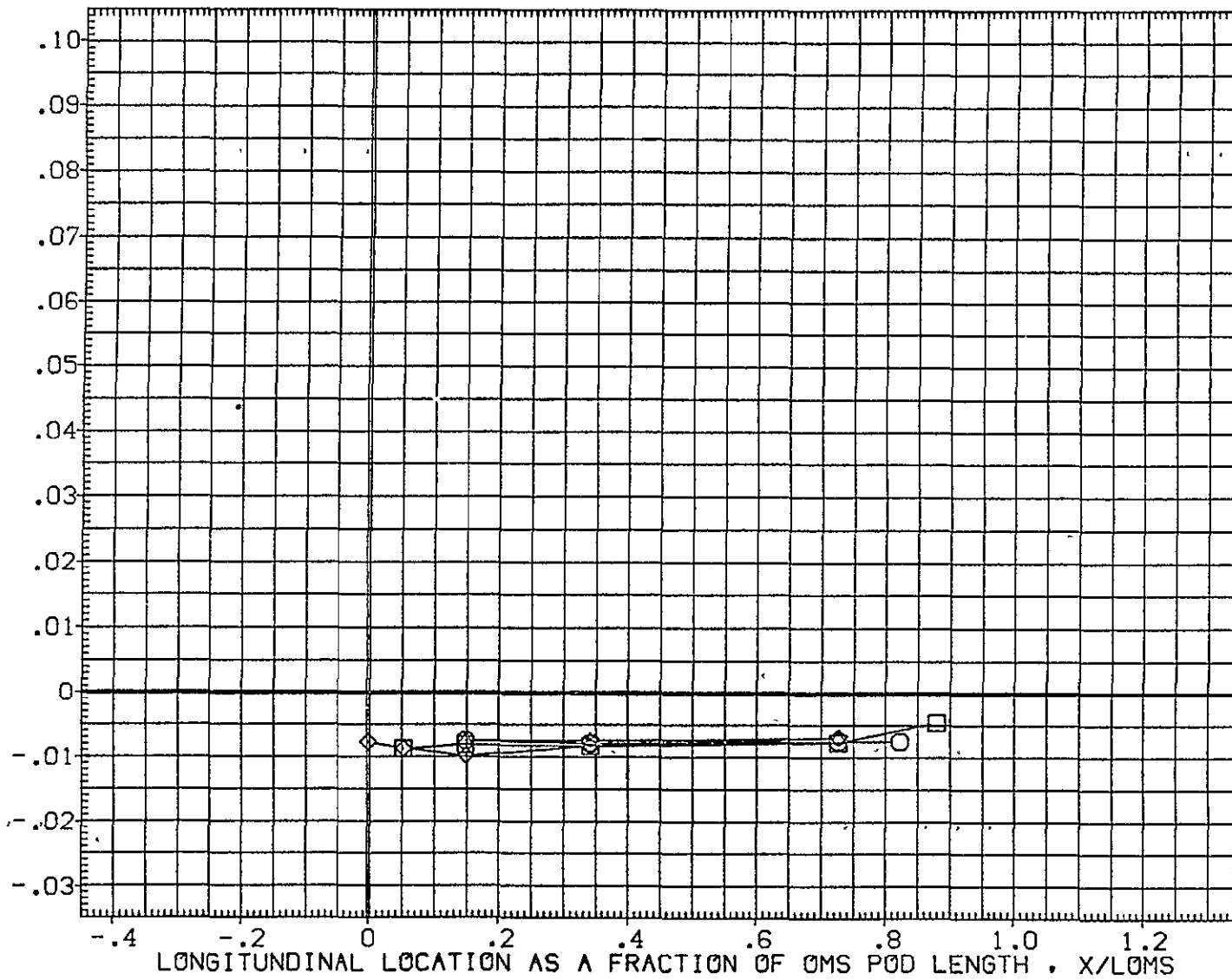


FIG. 6 OMS PODS



ARC 3.5-198 0H38 140C 0RB 0MS PODS

(CEZC05)

SYMBOL

○

□

◇

△

ROW NO

1.000

2.000

3.000

4.000

MACH

7.320

ALPHA

39.911

PARAMETRIC VALUES

BETA

.000

ELEV-L

5.050

ELEV-R

4.100

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

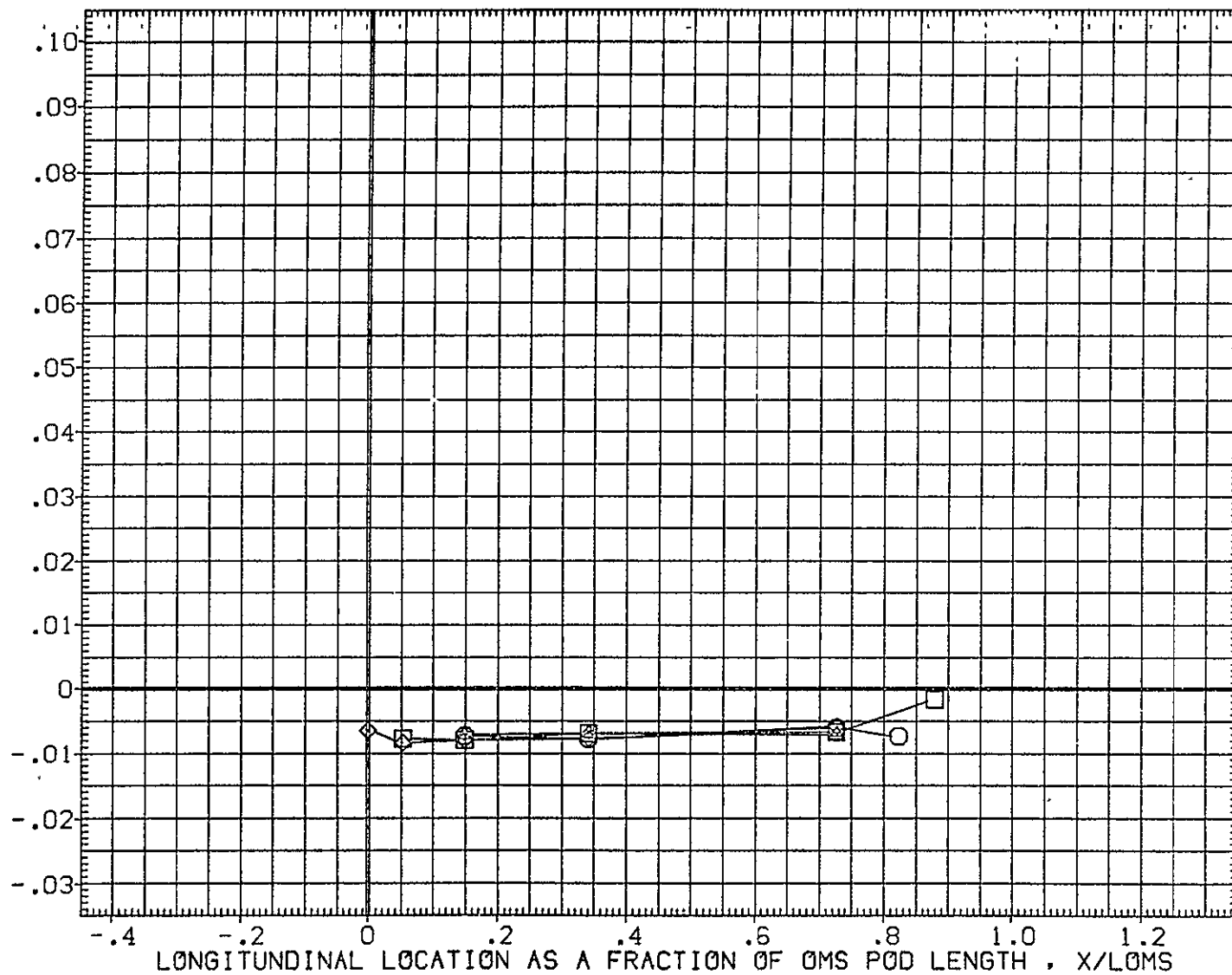


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO MACH ALPHA  
1.000 7.320 45.000  
2.000  
3.000  
4.000

PARAMETRIC VALUES  
BETA .000 ELEV-L 5.050  
ELEV-R 4.100 SPOBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP; CP/CPs

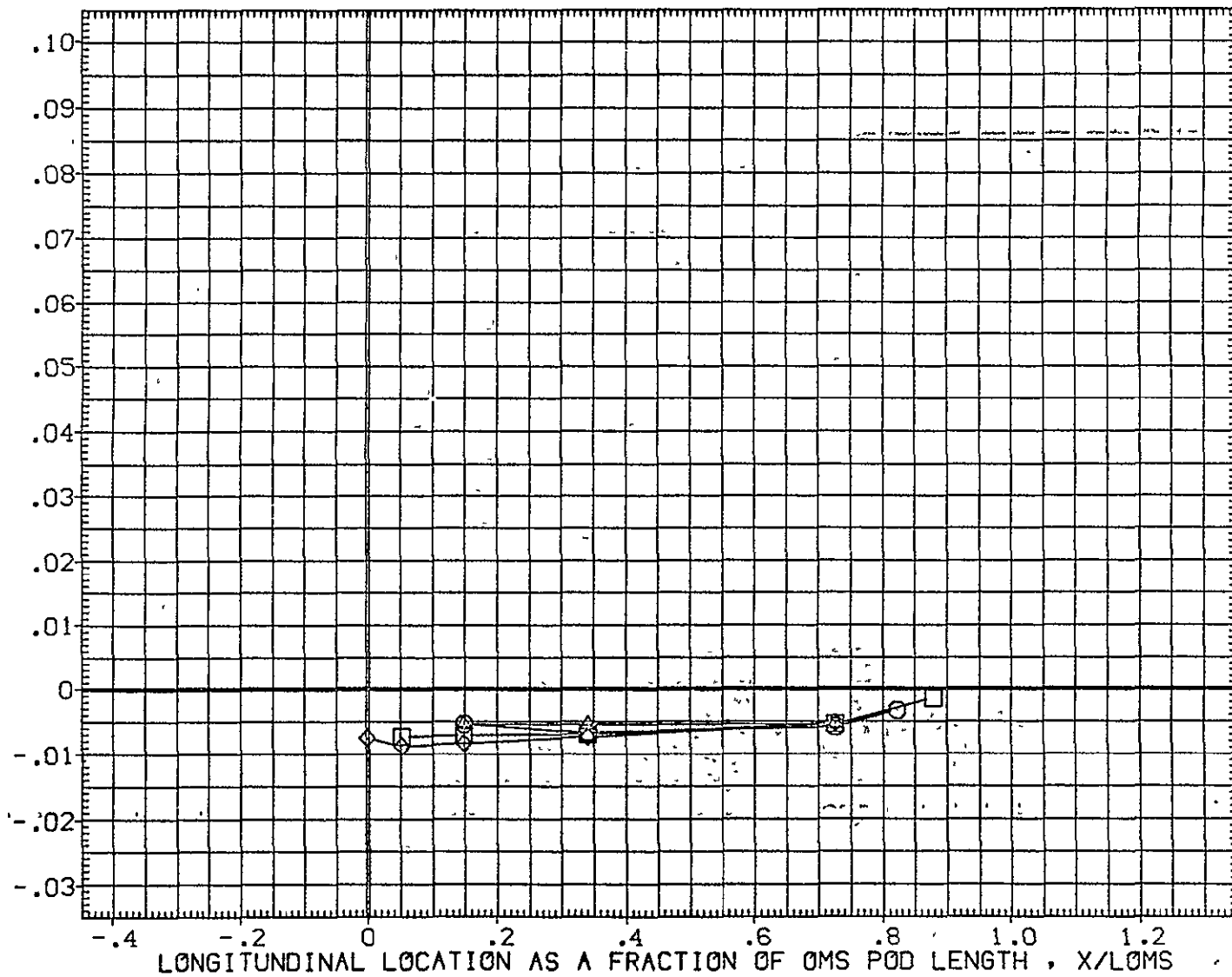


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(CEZC05)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	50.000
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

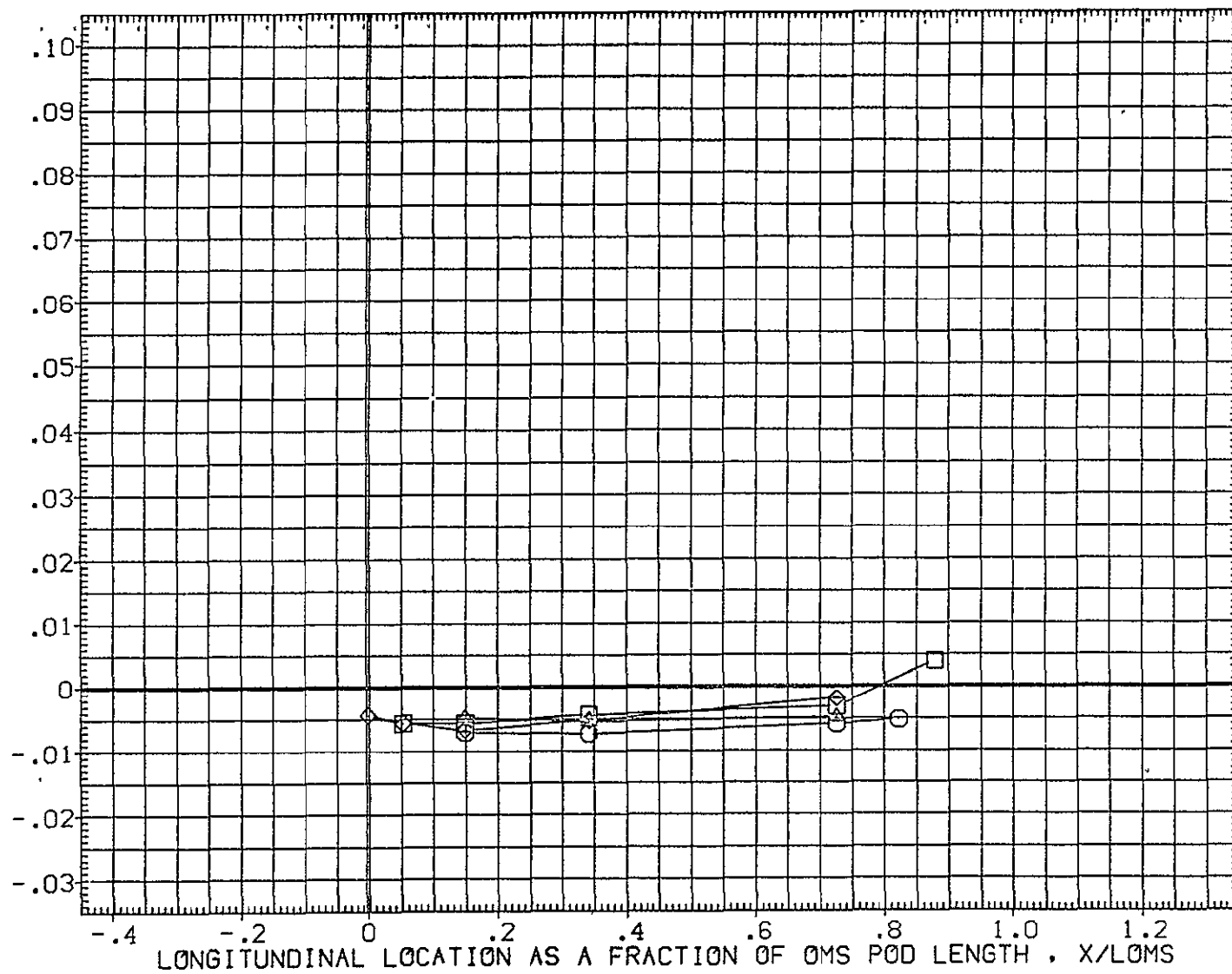


FIG. 6 OMS PODS

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	19.132
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BOFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

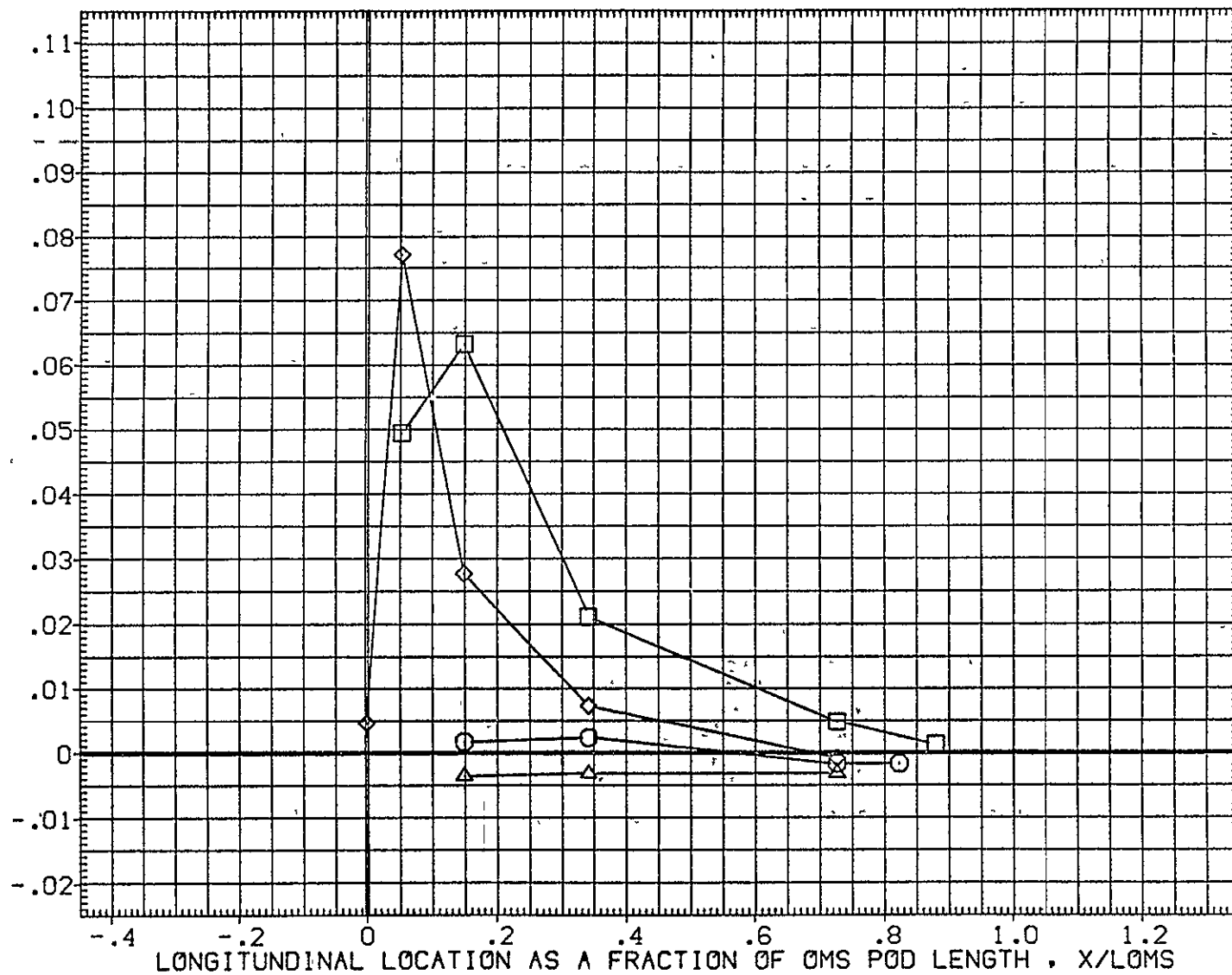


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(PEZC07)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	24.590
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

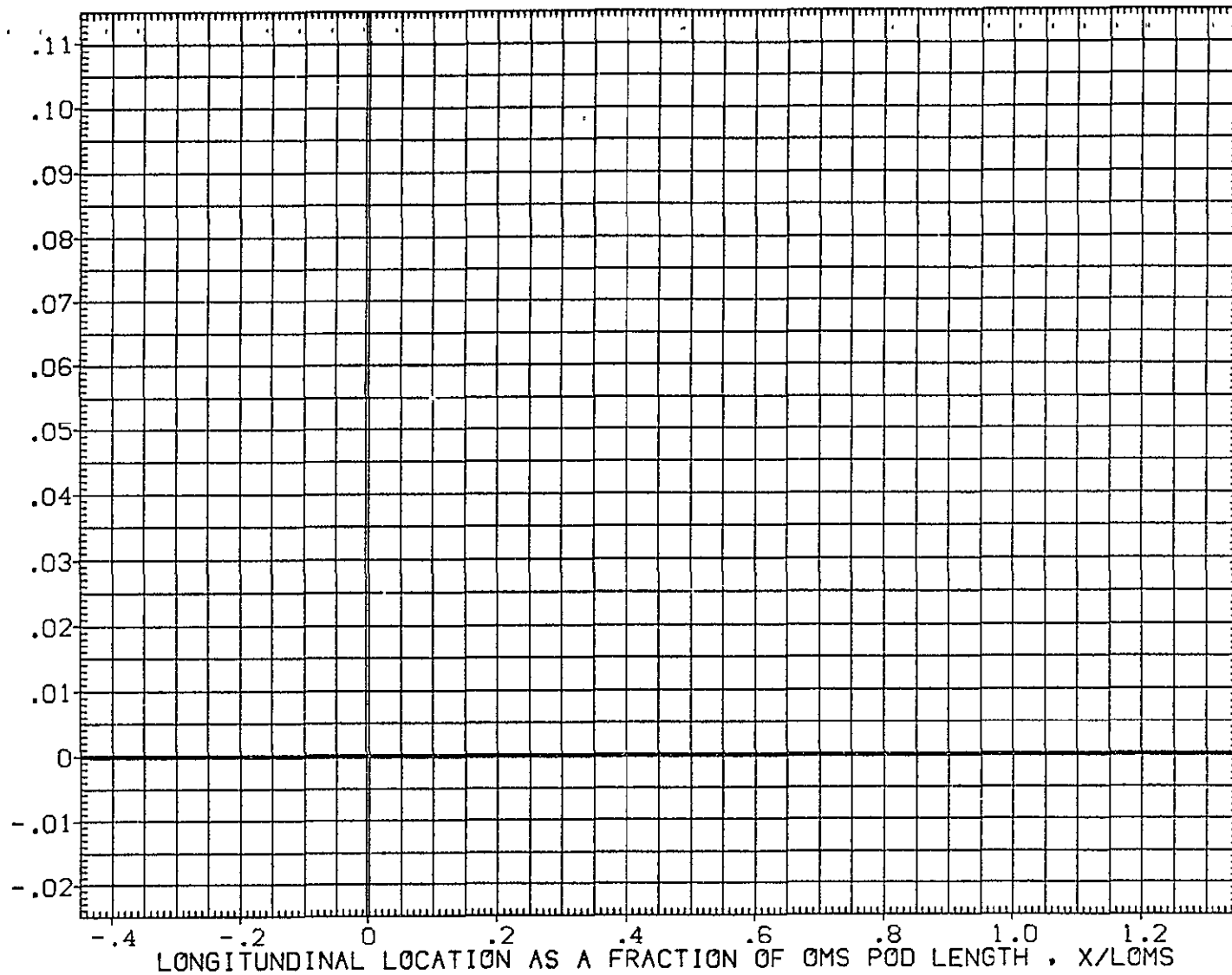


FIG. 6 OMS PODS

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	29.758
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPOBRK	.000
BOFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

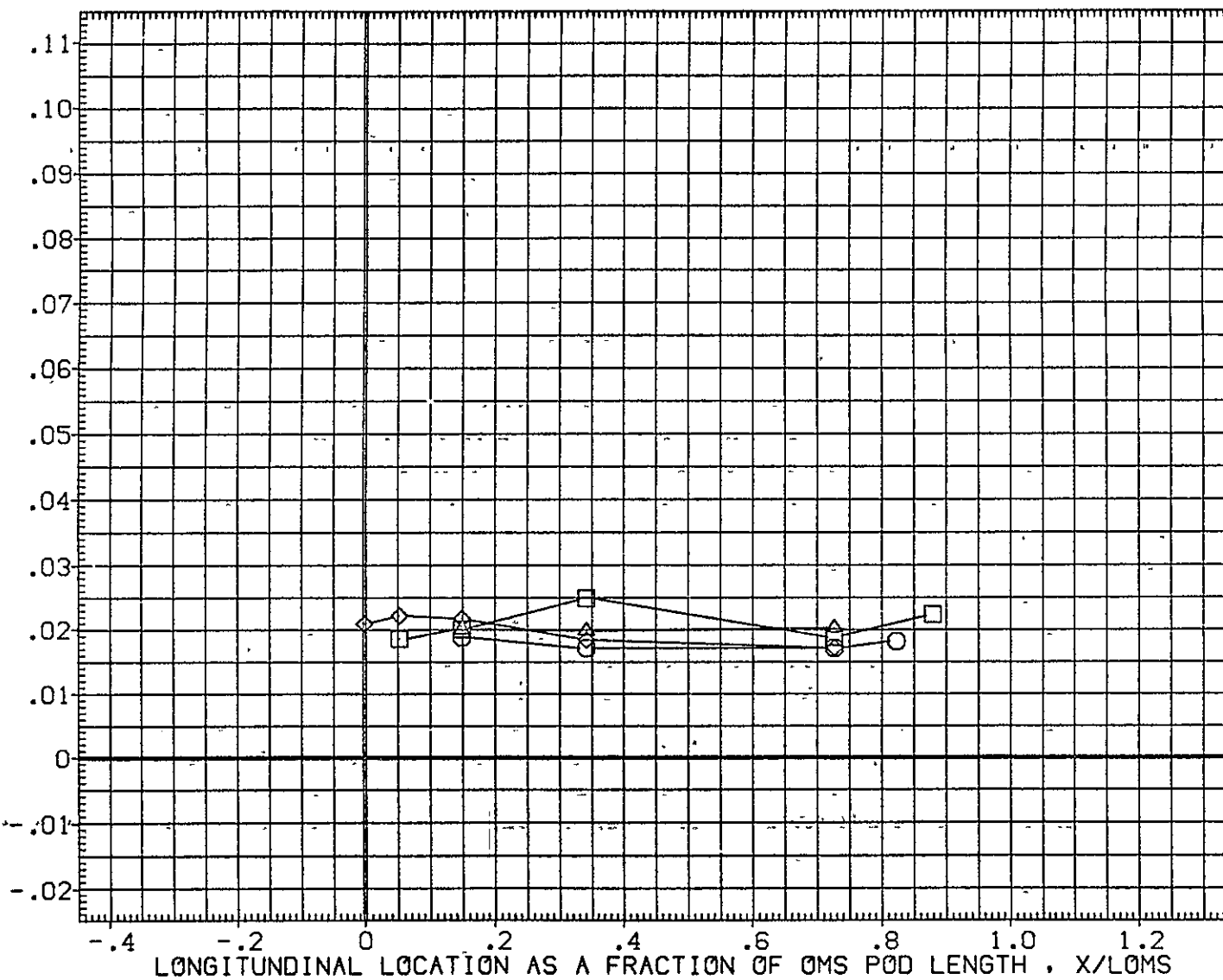


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(PEZC07)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	39.891
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

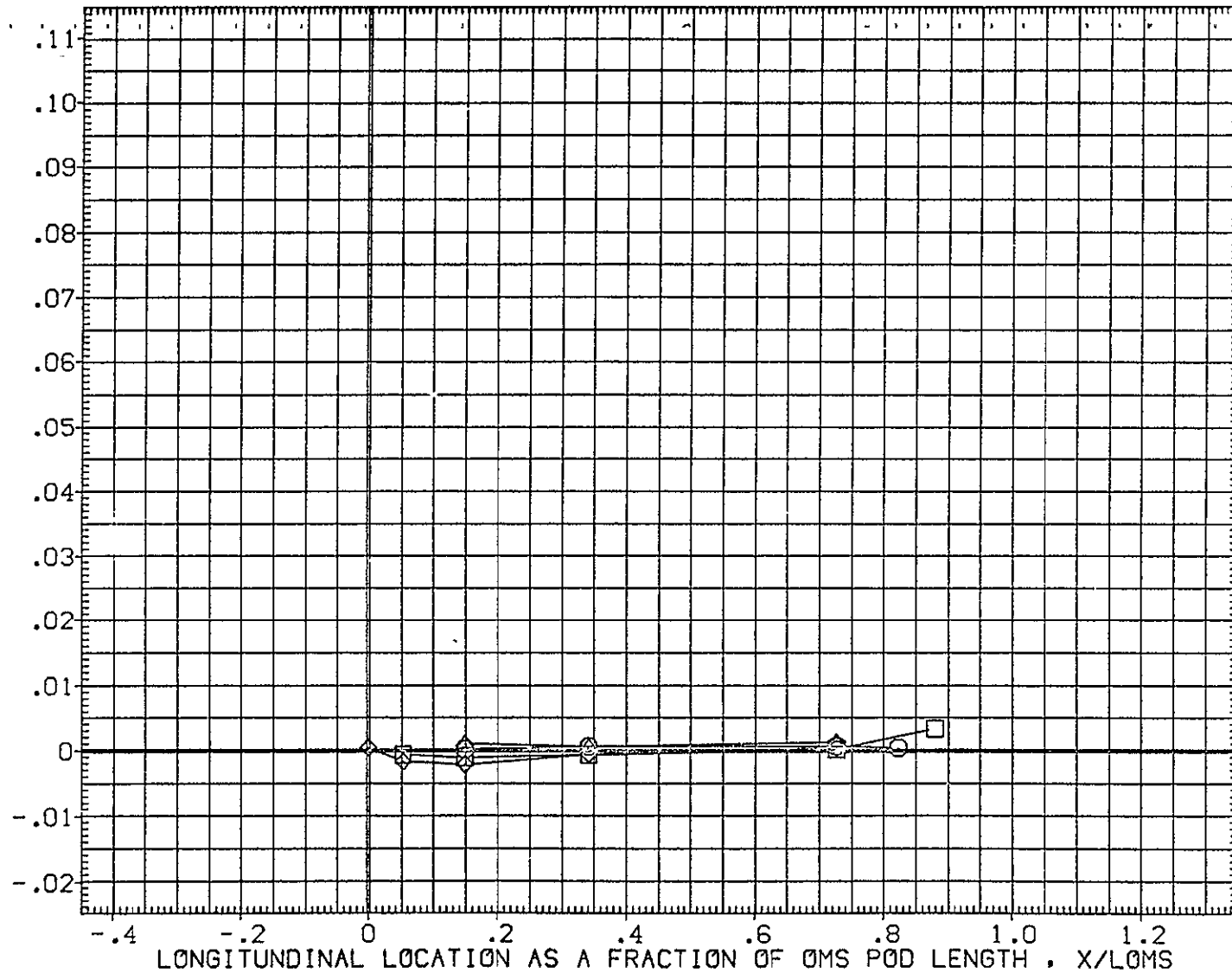


FIG. 6 OMS PODS

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	39.985
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

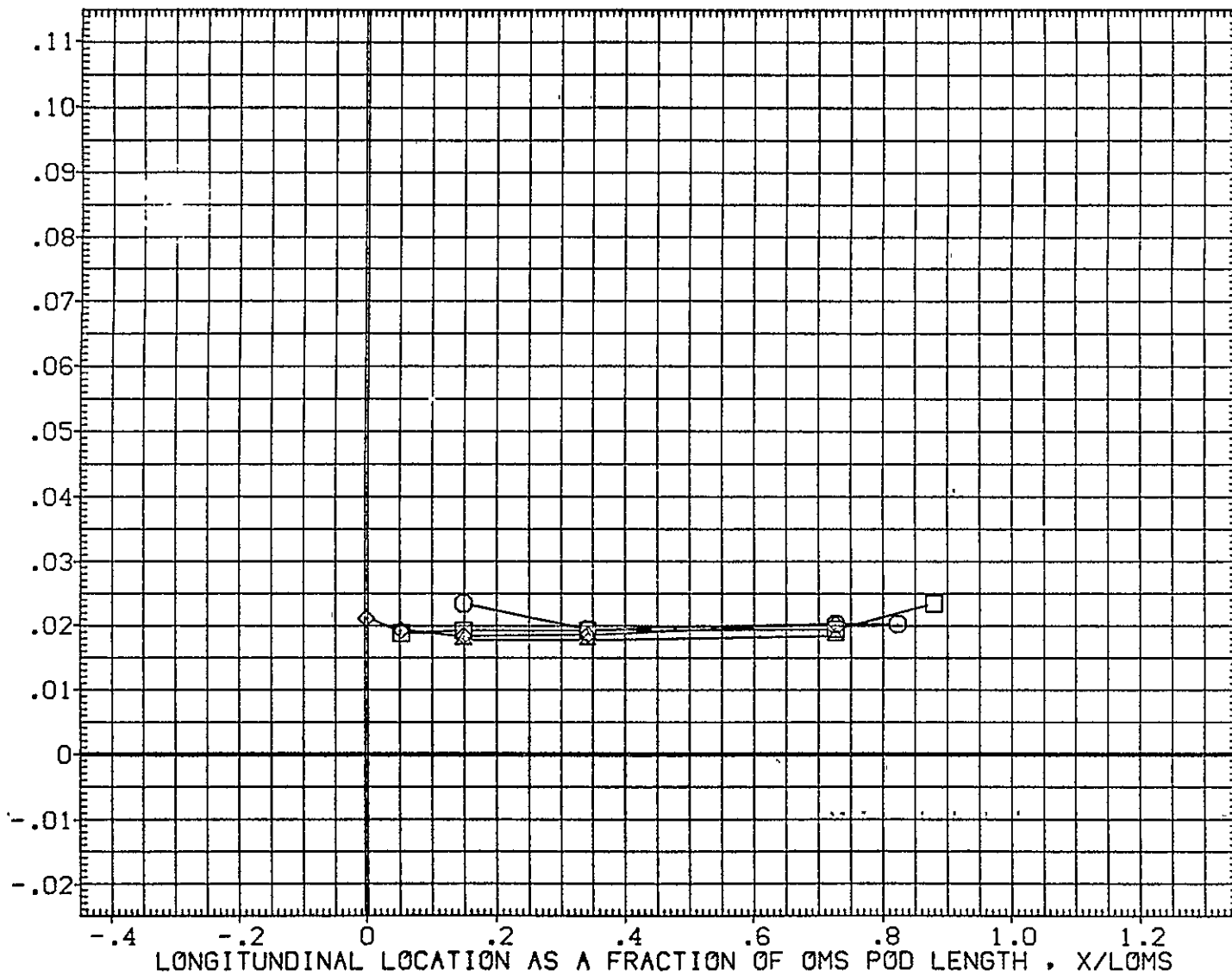


FIG. 6 OMS PODS



ARC 3.5-198 0H38 140C 0RB 0MS PODS

(PEZC07)

SYMBOL

ROW NO

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELFV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

○  
□  
◇  
△1.000  
2.000  
3.000  
4.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

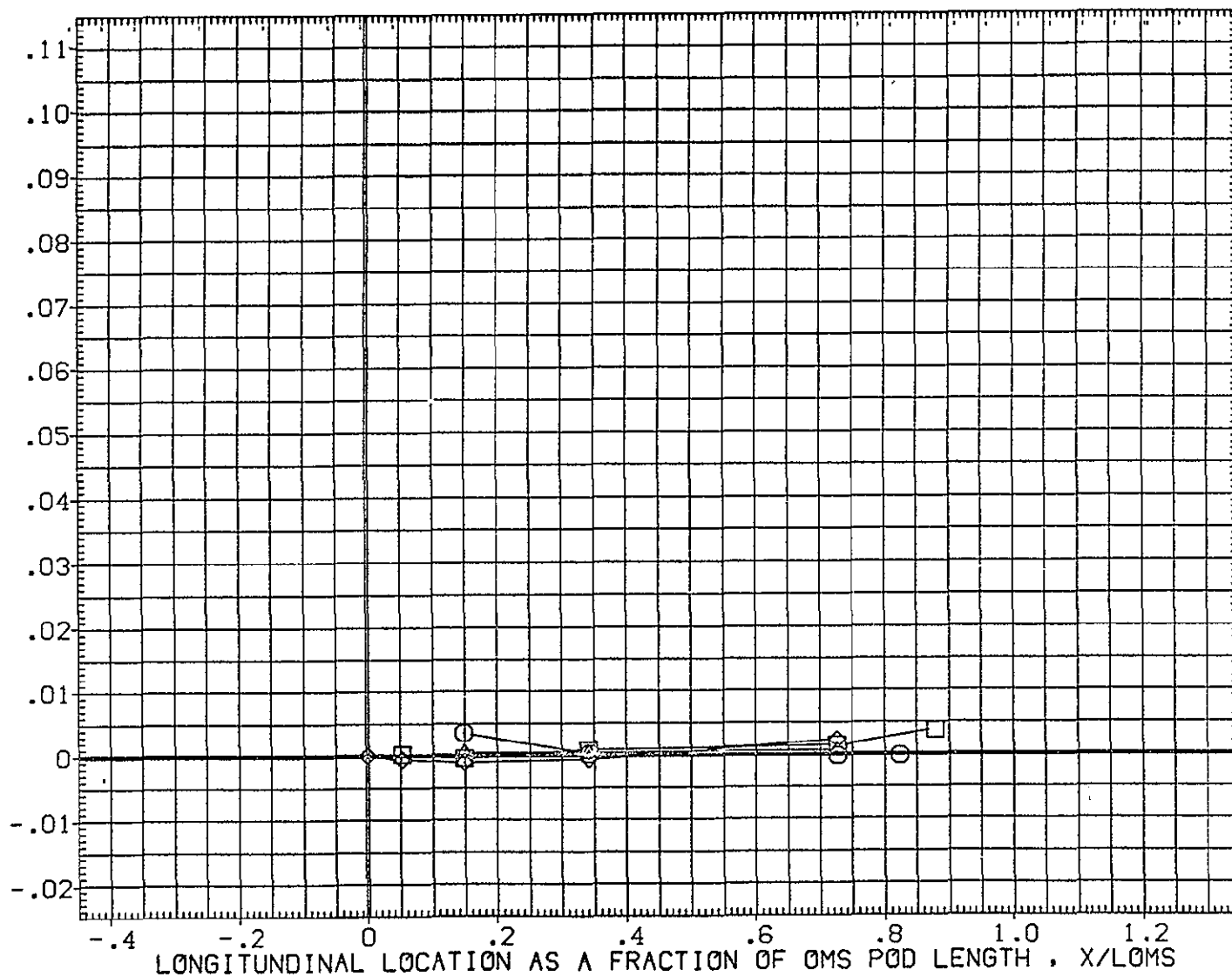


FIG. 6 OMS PODS

SYMBOL  
○  
◇  
□  
△

ROW NO	MACH	ALPHA
1.000	7.320	19.441
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

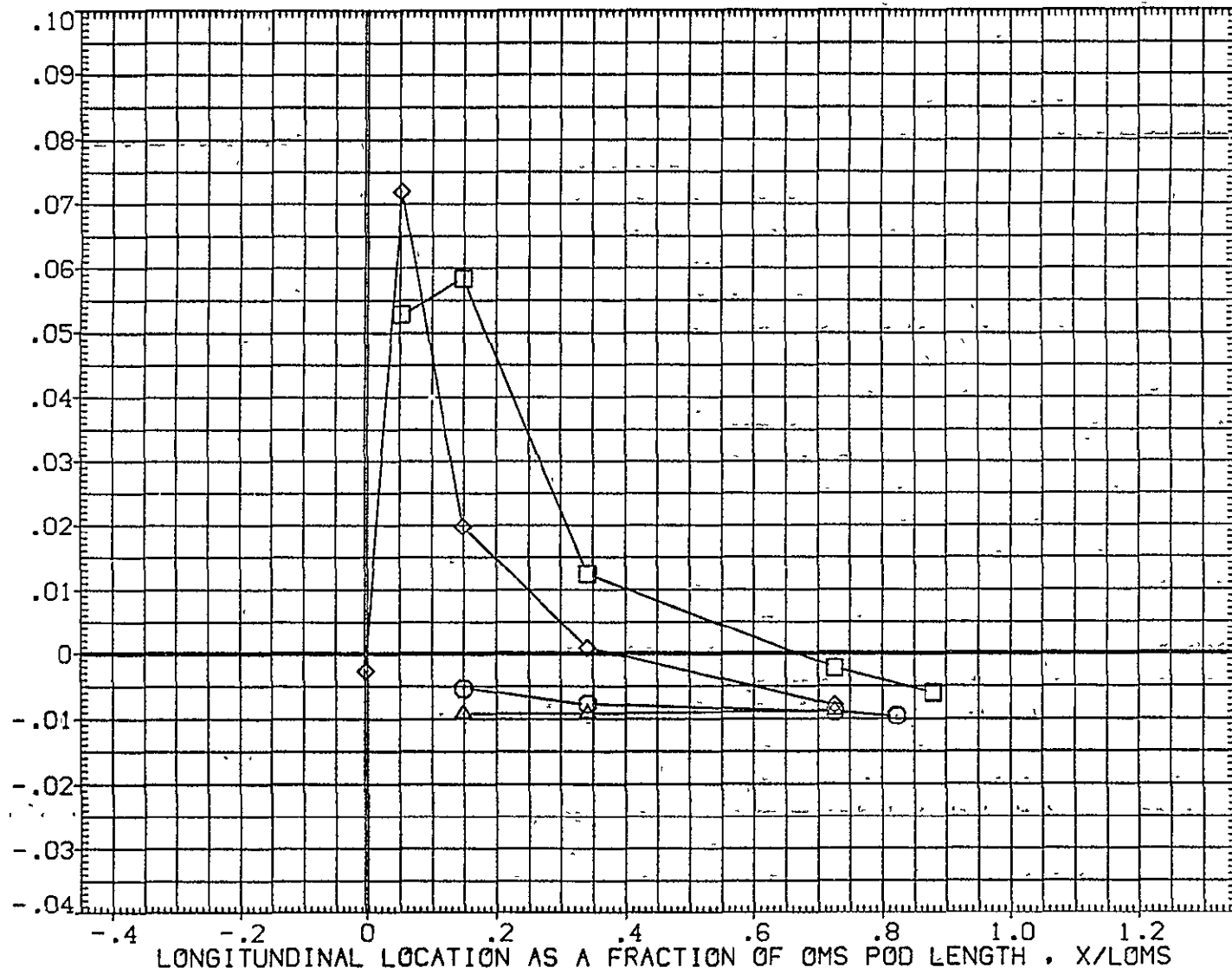


FIG. 6 OMS PODS

ARC 3.5-198 OH38 140C ORB OMS PODS

(CEZC11)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	25.000
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

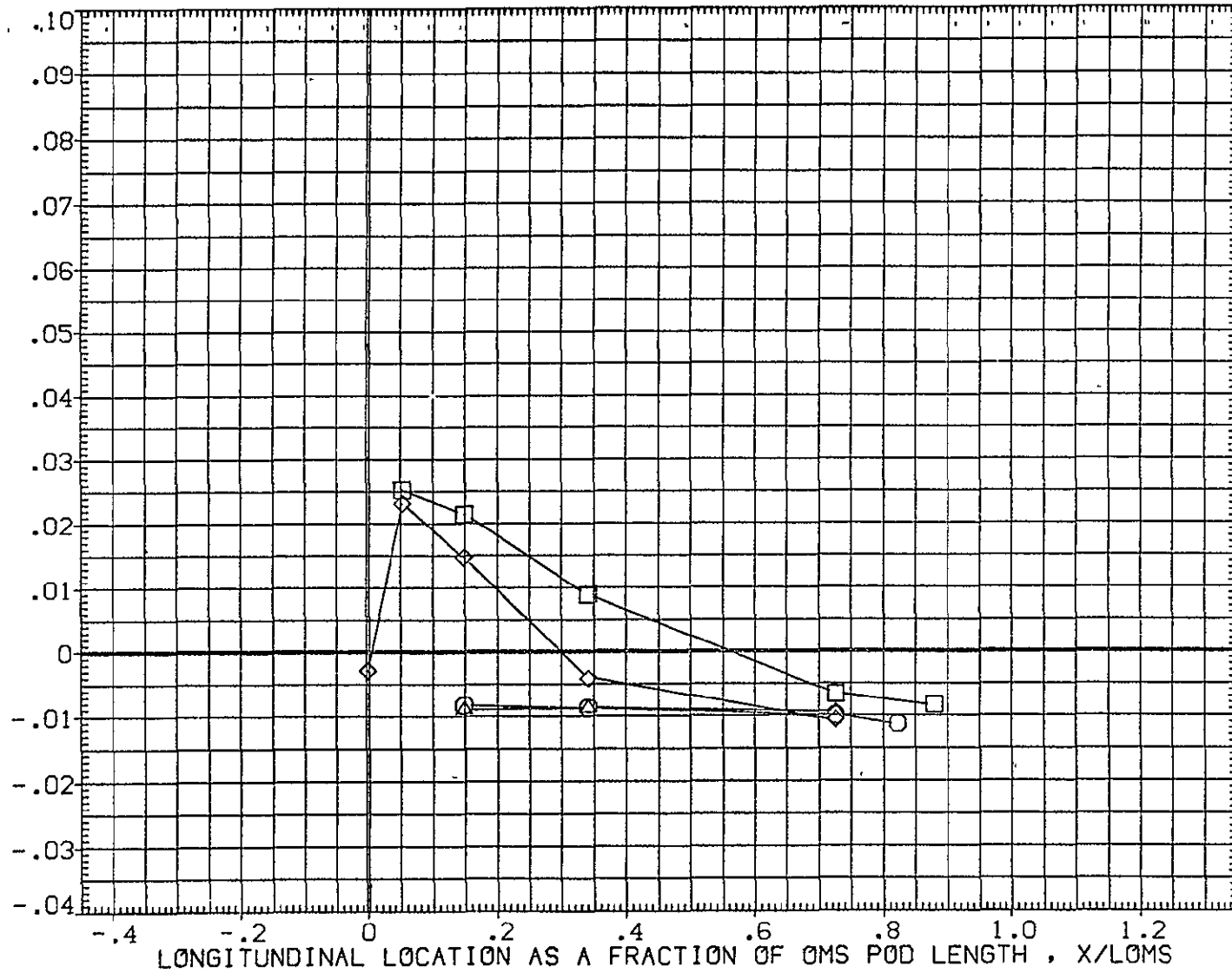


FIG. 6 OMS PODS

SYMBOL

○  
□  
◇  
△

ROW NO

MACH

ALPHA

1.000  
2.000  
3.000  
4.000

7.320

29.674

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

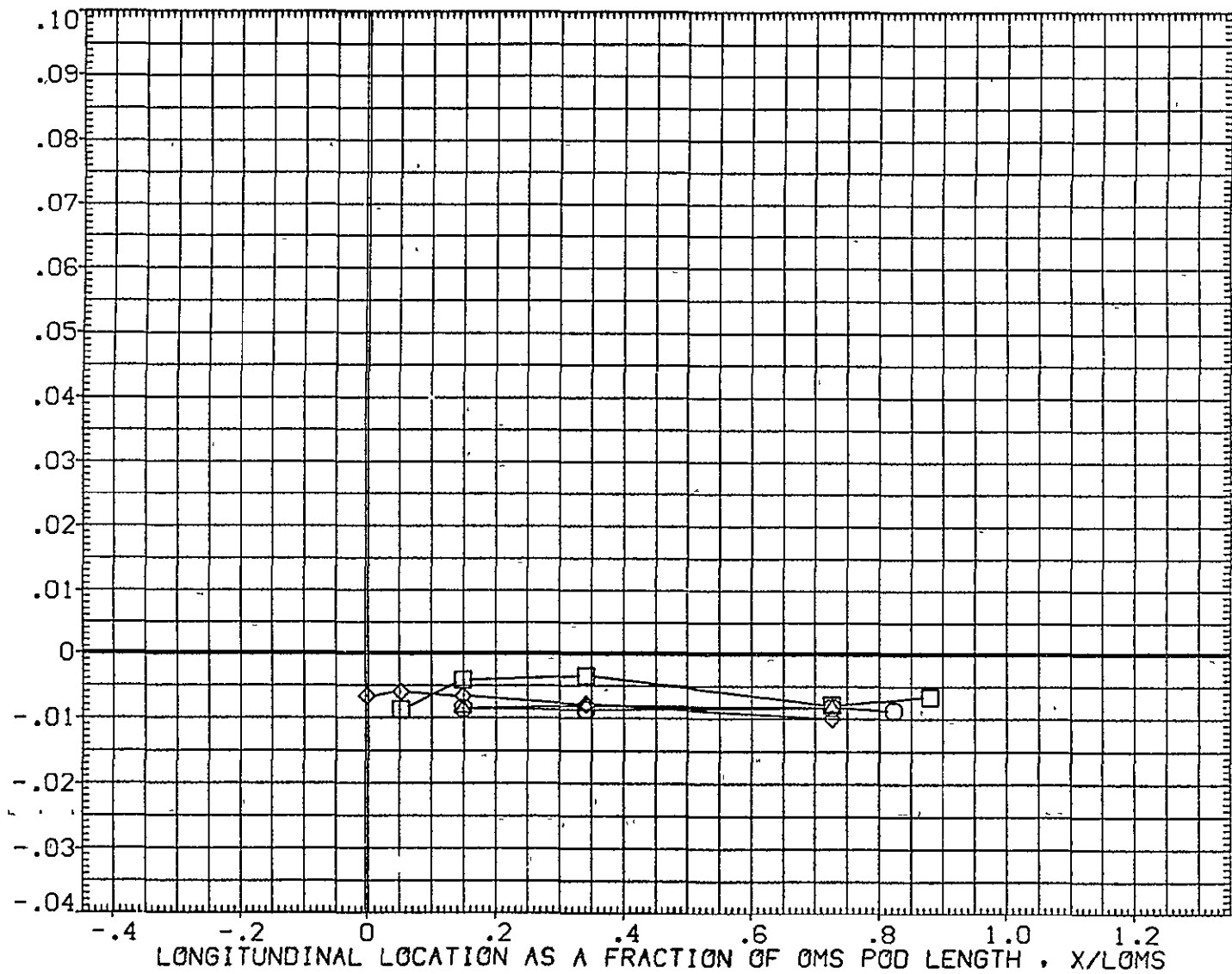
RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CP<sub>S</sub>

FIG. 6 OMS PODS

SYMBOL  
 ○  
 □  
 ◇  
 △

ROW NO  
 1.000  
 2.000  
 3.000  
 4.000

MACH  
 7.320

ALPHA  
 34.627

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

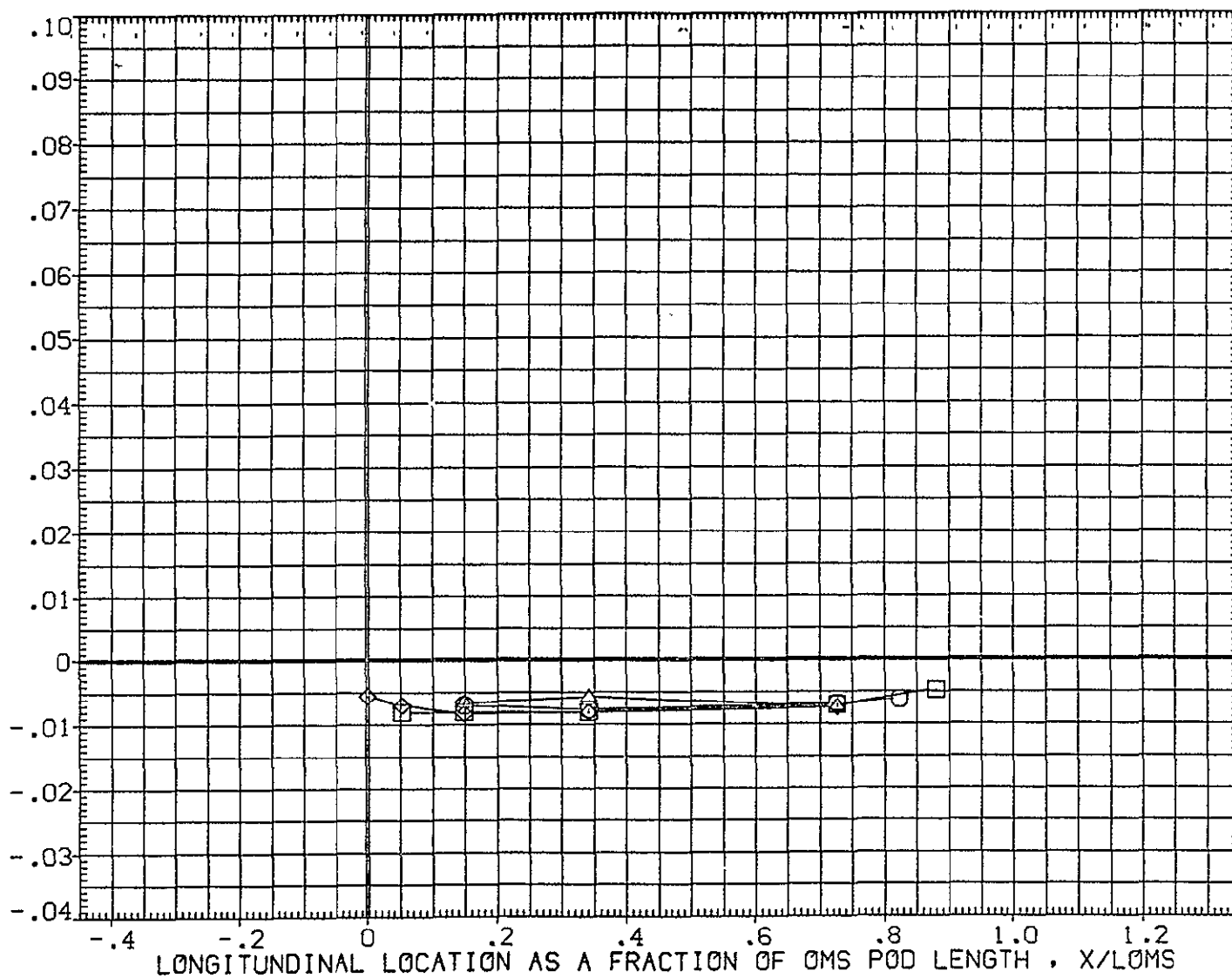


FIG. 6 OMS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	39.946
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

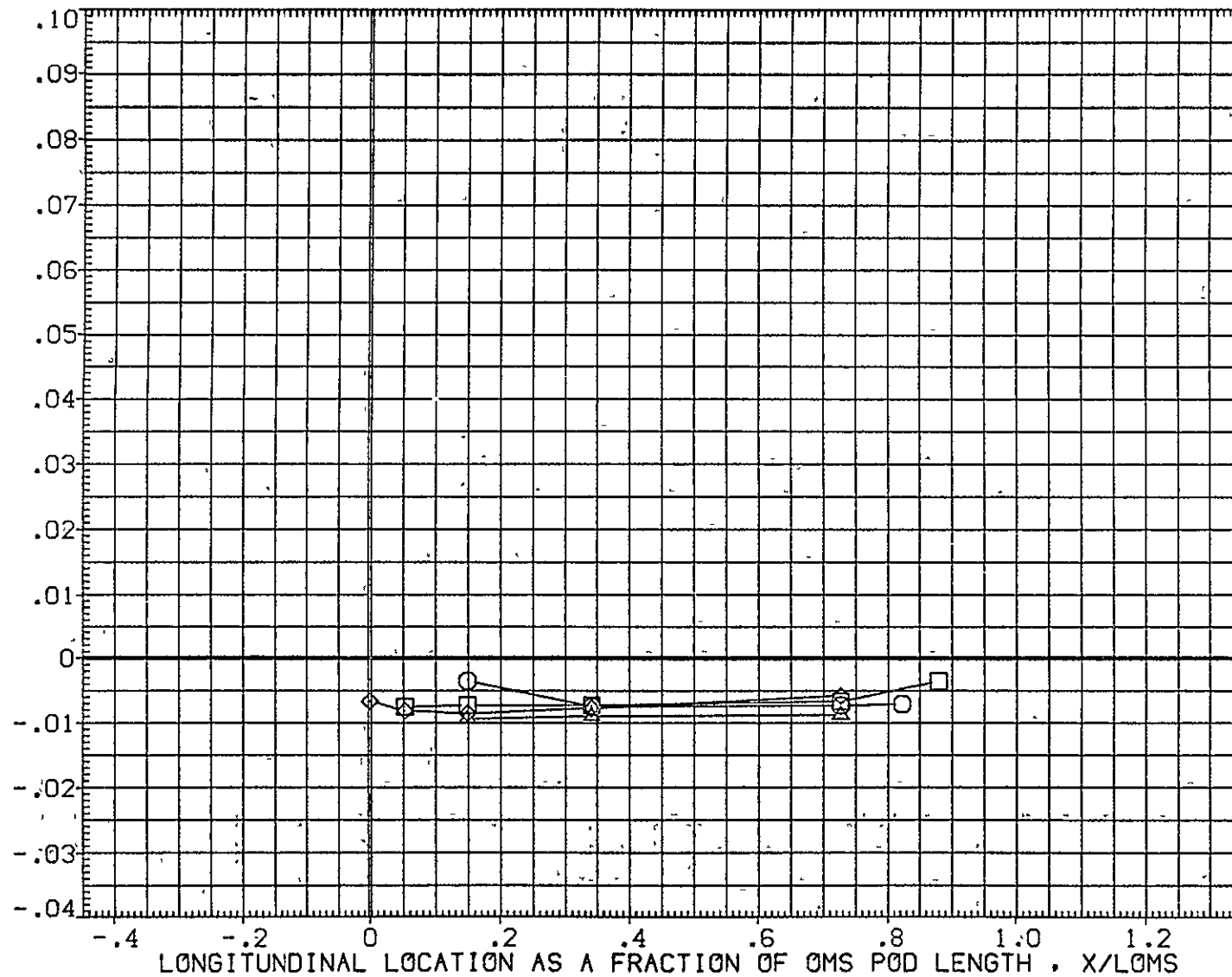


FIG. 6 OMS PODS

ARC 3.5-198 OH38 140C ORB OMS PODS

(CEZC11)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	44.081
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

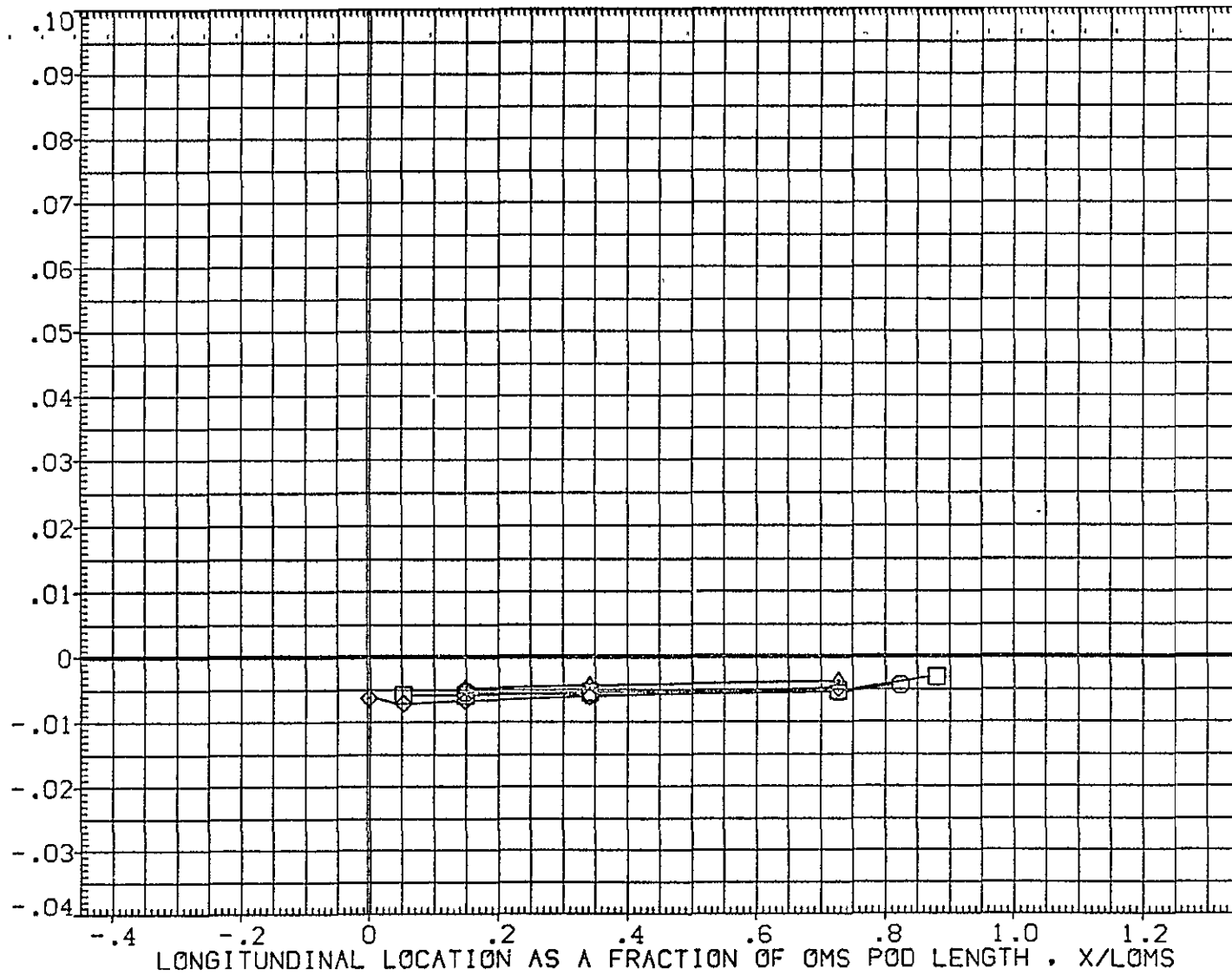


FIG. 6 OMS PODS

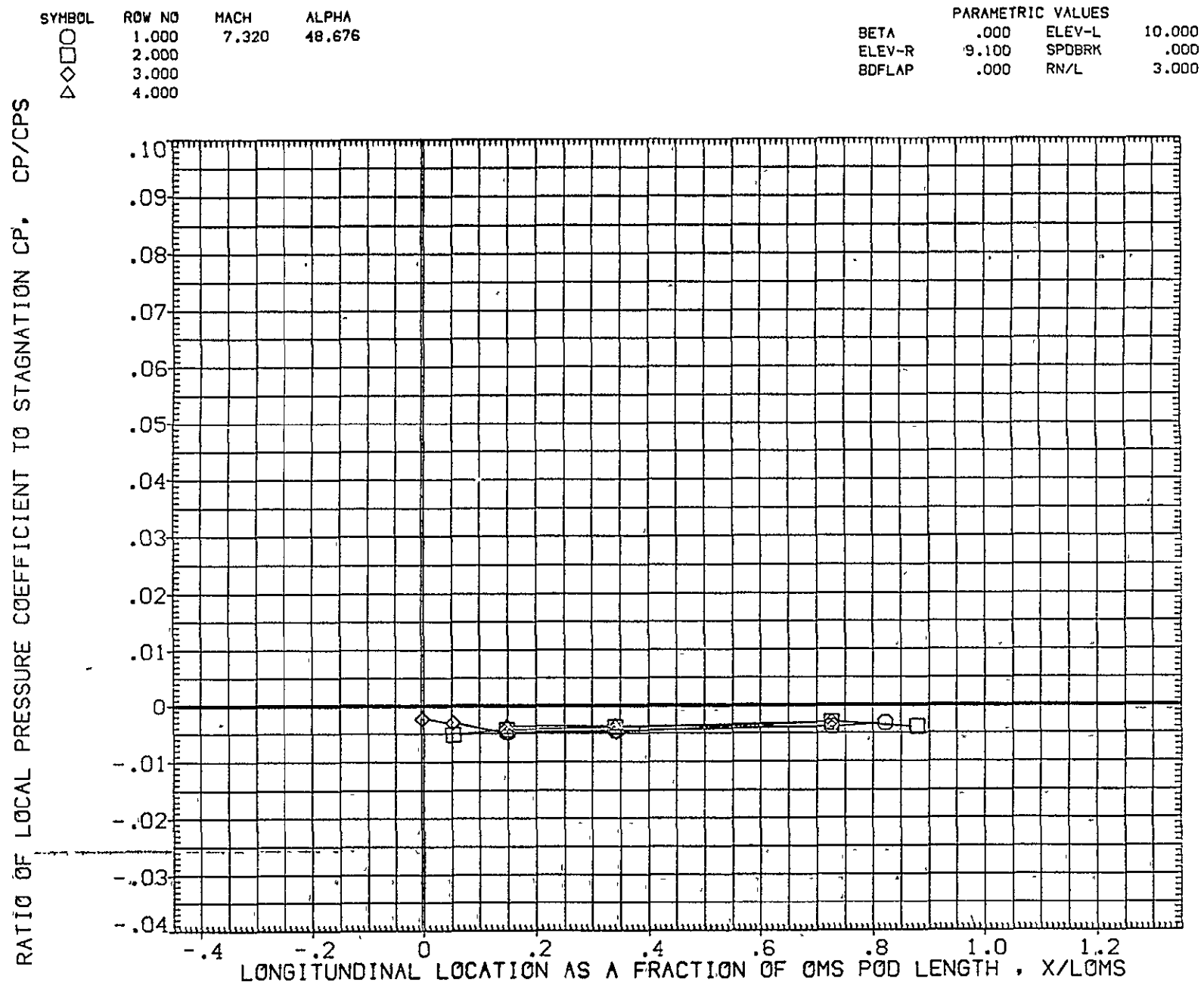


FIG. 6 OMS PODS



ARC 3.5-198 CH38 140C ORB OMS PODS

(OEZC14)

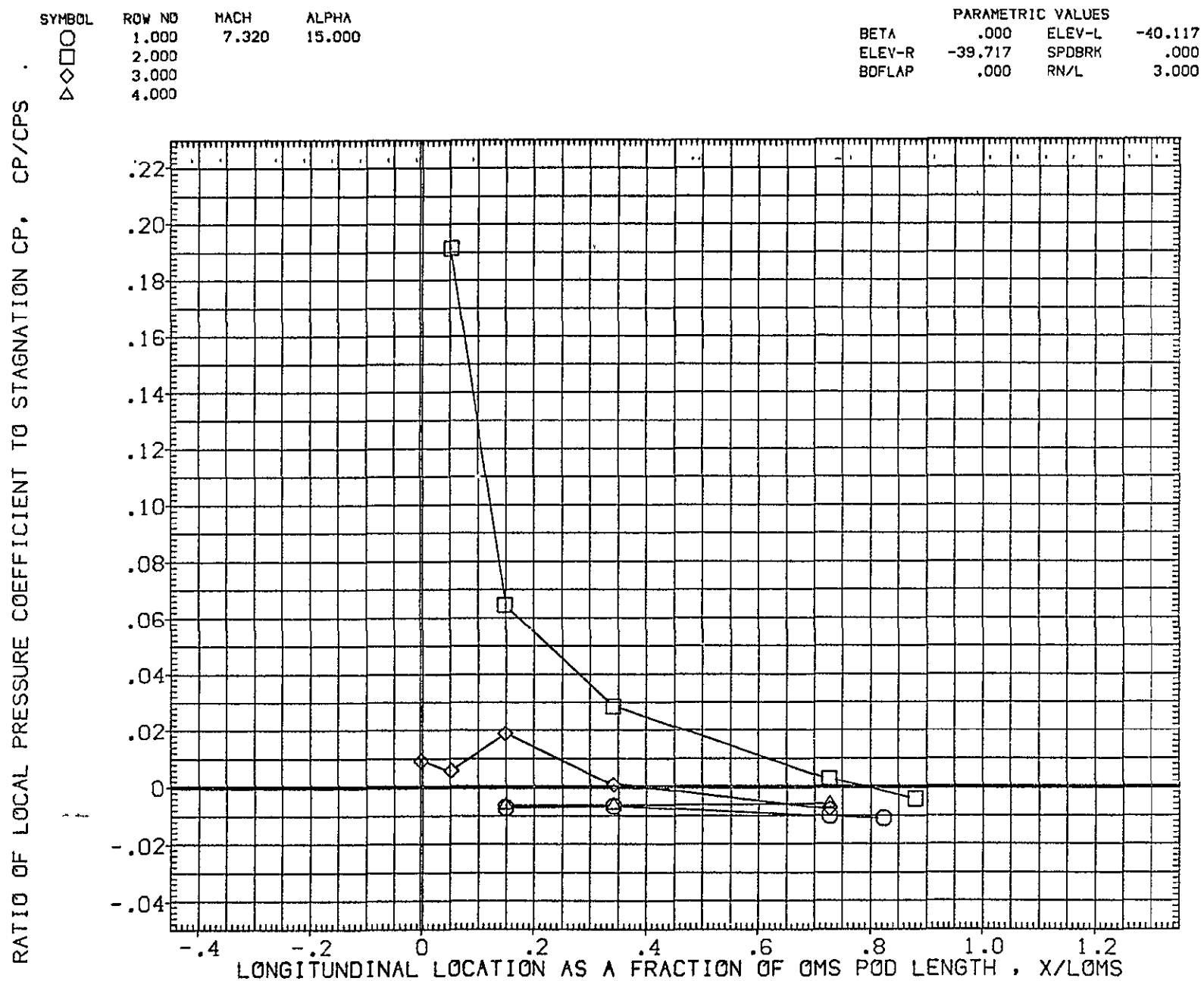


FIG. 6 OMS PODS

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	19.534
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

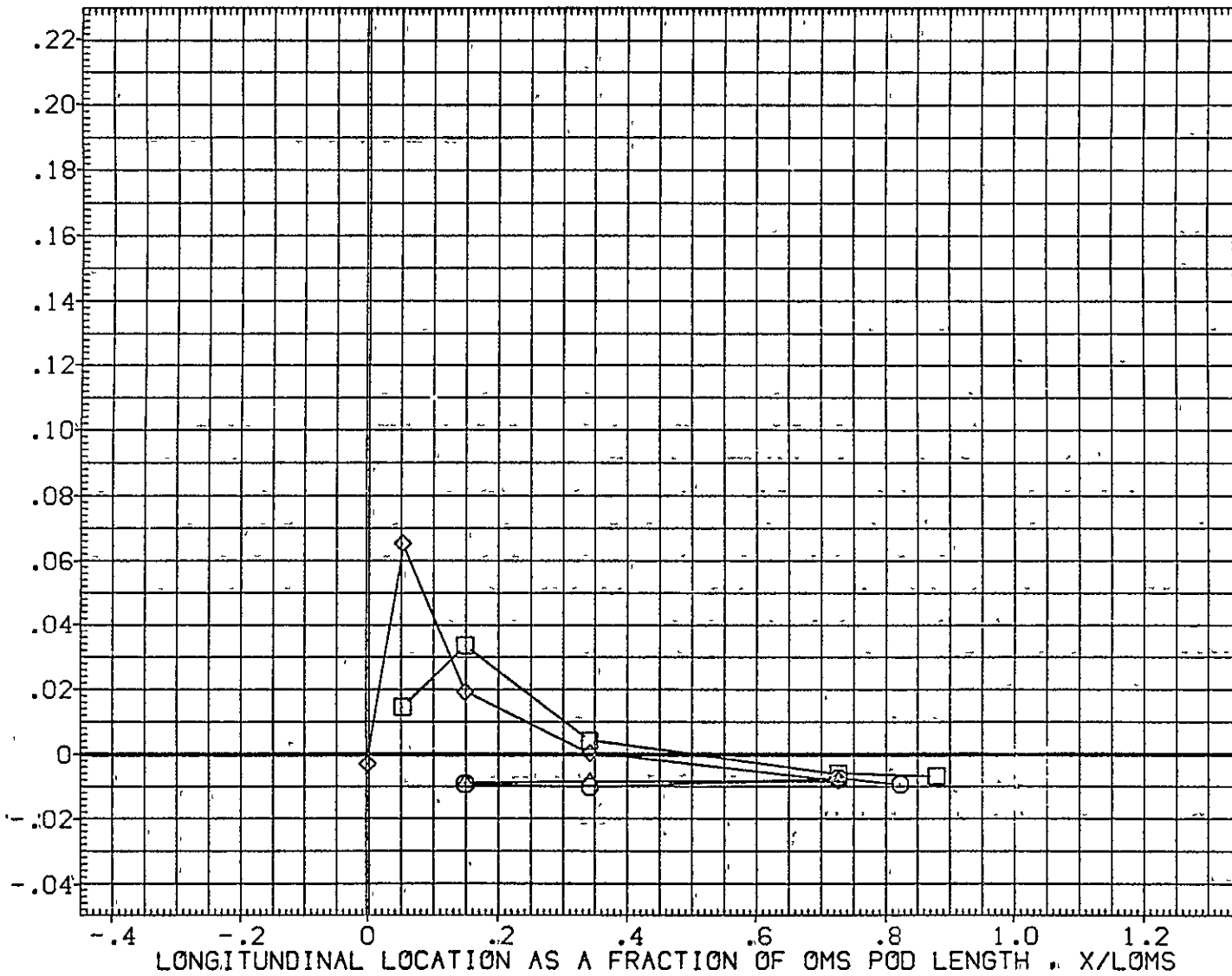
RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CP<sub>S</sub>

FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(0EZC14)

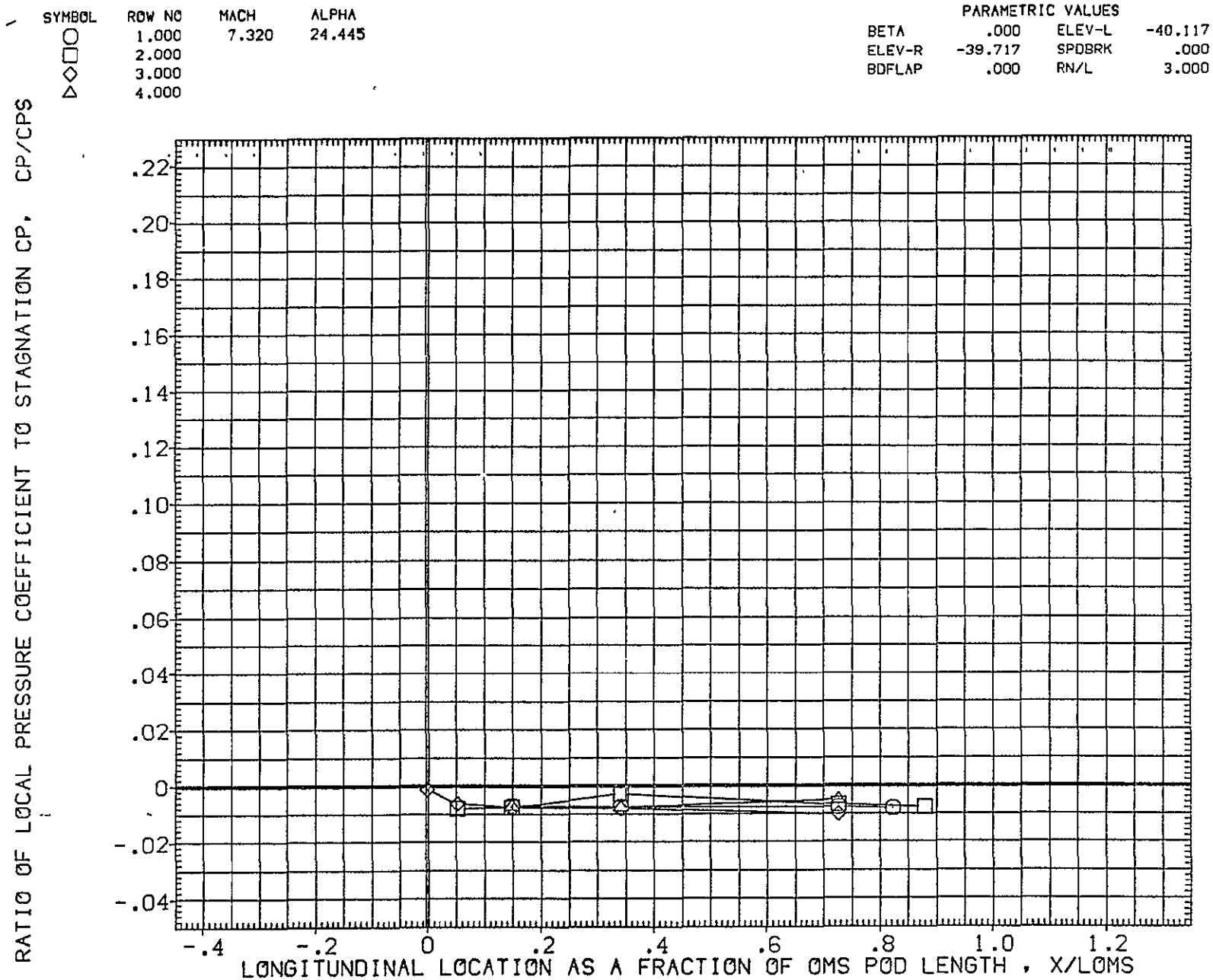


FIG. 6 0MS PODS

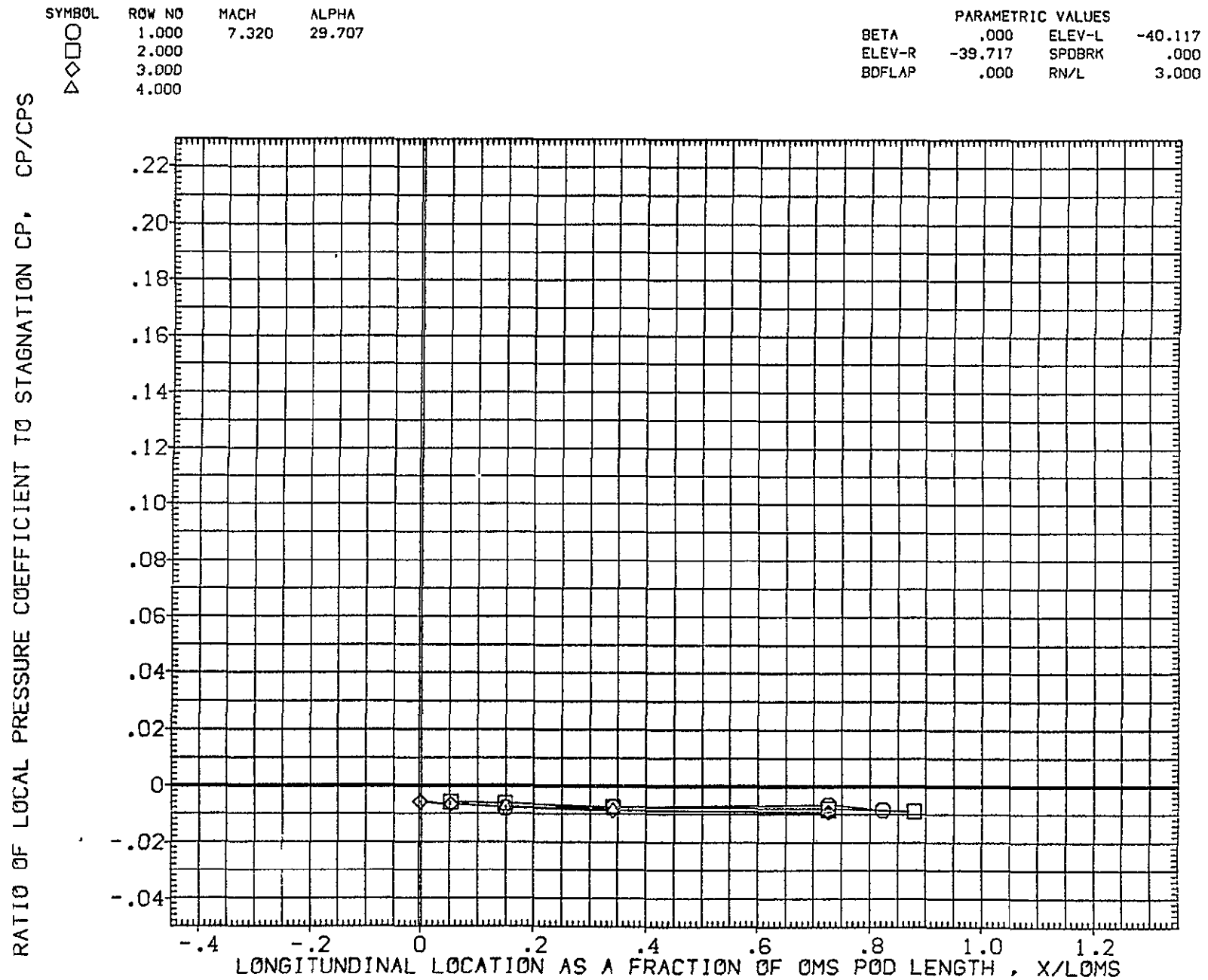


FIG. 6 OMS PODS

ARC 3.5-198 OH38 140C ORB OMS PODS

(OEZC14)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	7.320	34.863
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

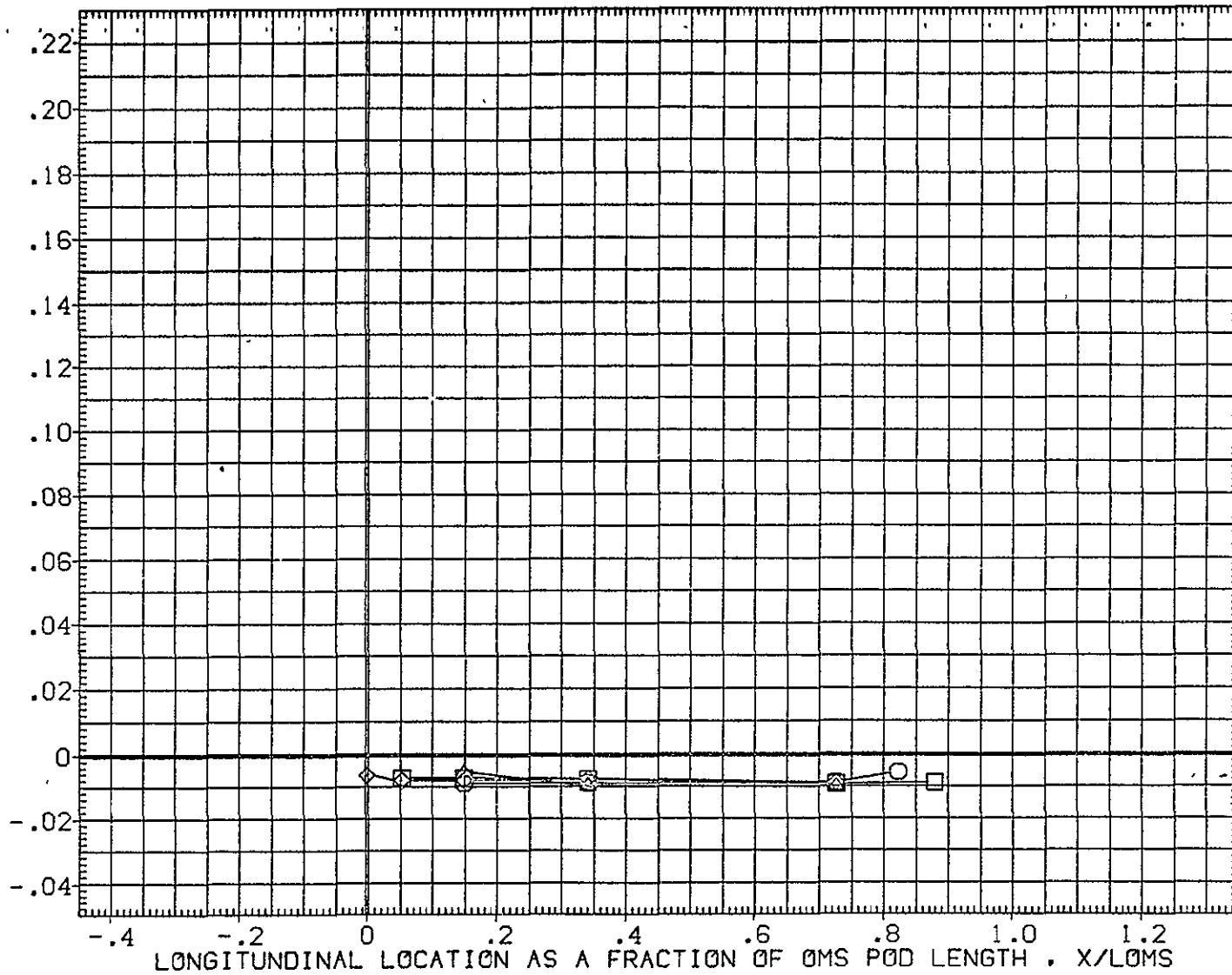


FIG. 6 OMS PODS

SYMBOL

○  
□  
◇  
△

ROW NO

1.000  
2.000  
3.000  
4.000

MACH

7.320

ALPHA

39.964

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

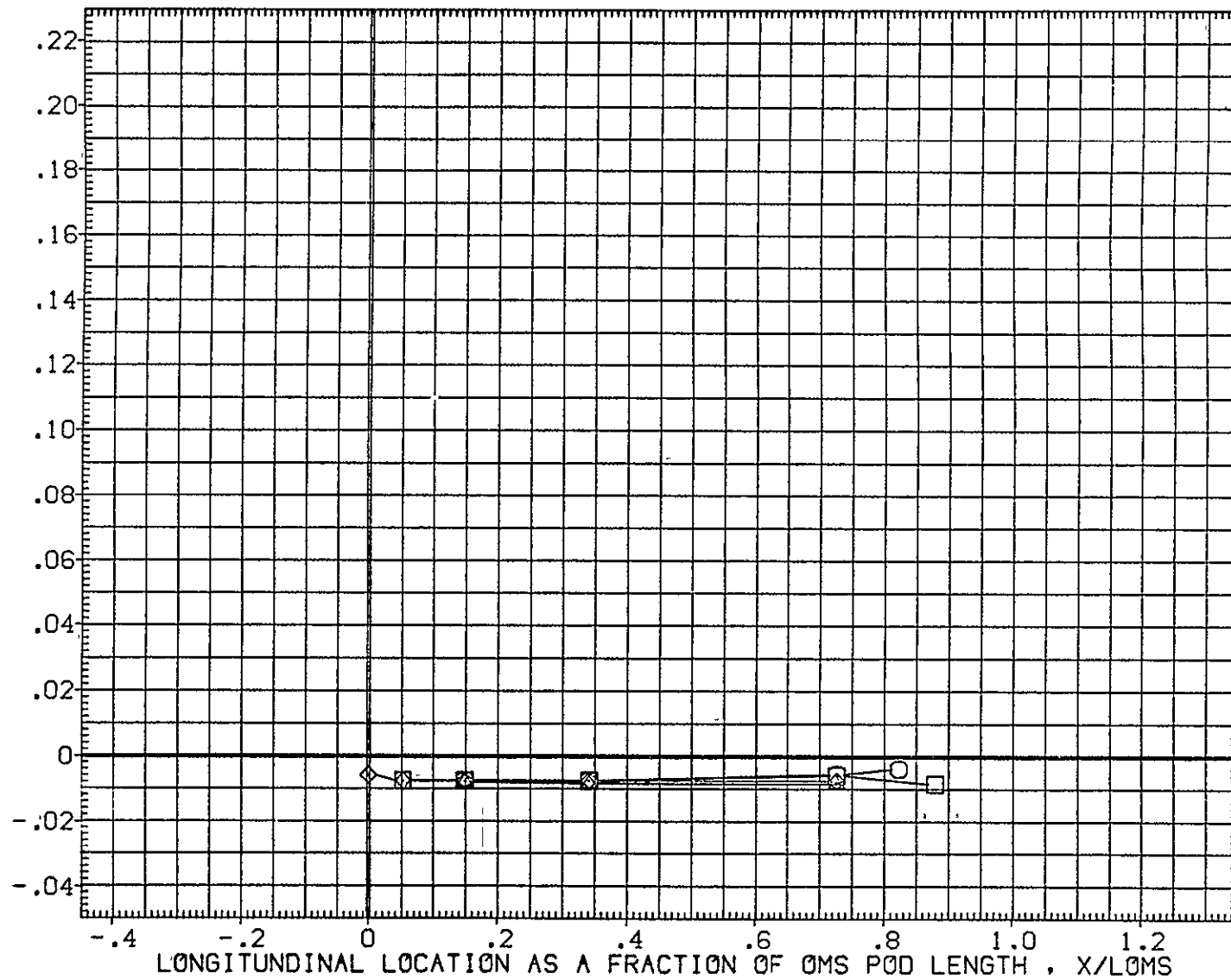


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(0EZC14)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	44.152
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

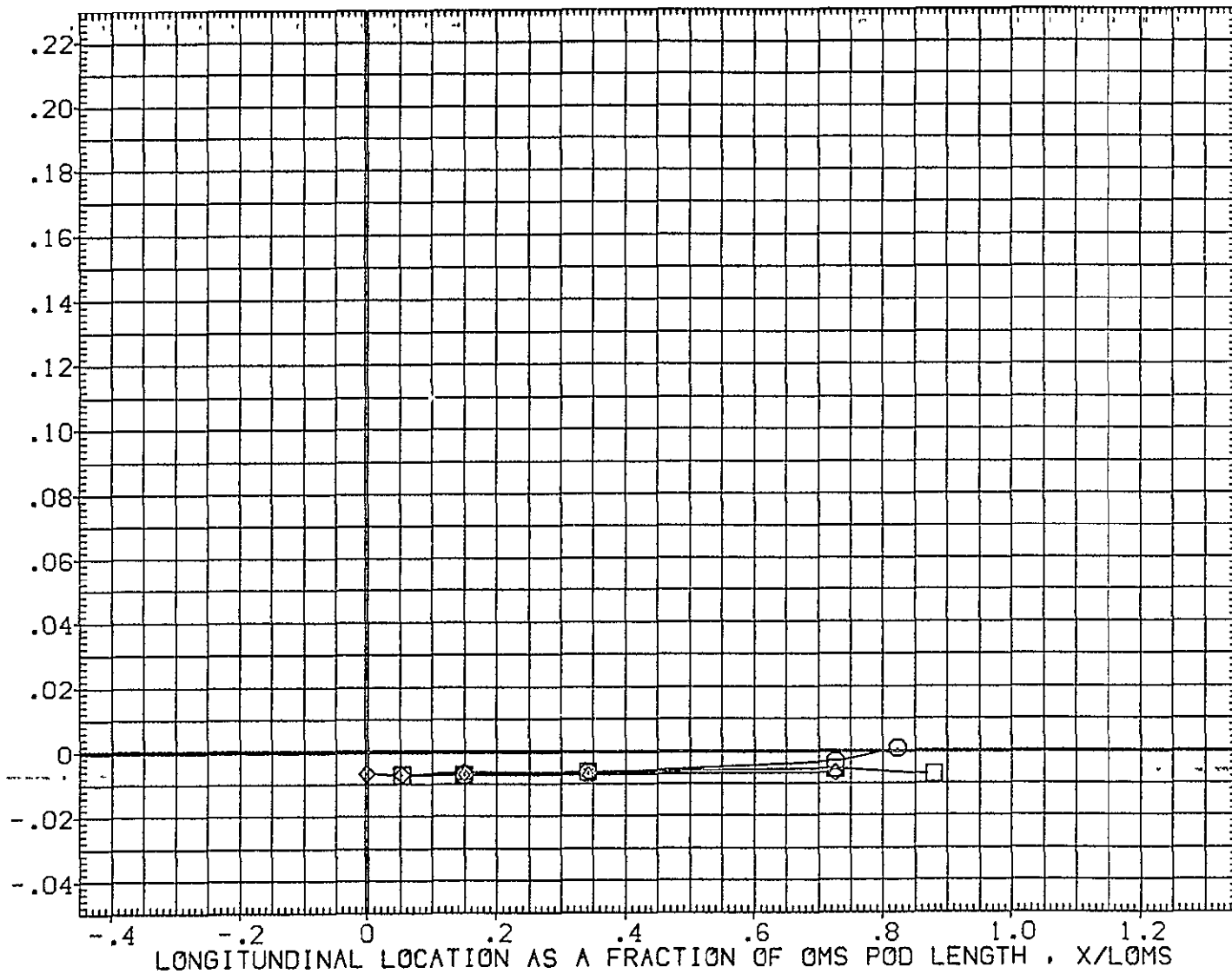


FIG. 6 0MS PODS

SYMBOL  
○  
□  
◇  
△

ROW NO  
1.000  
2.000  
3.000  
4.000

MACH  
7.320

ALPHA  
50.000

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

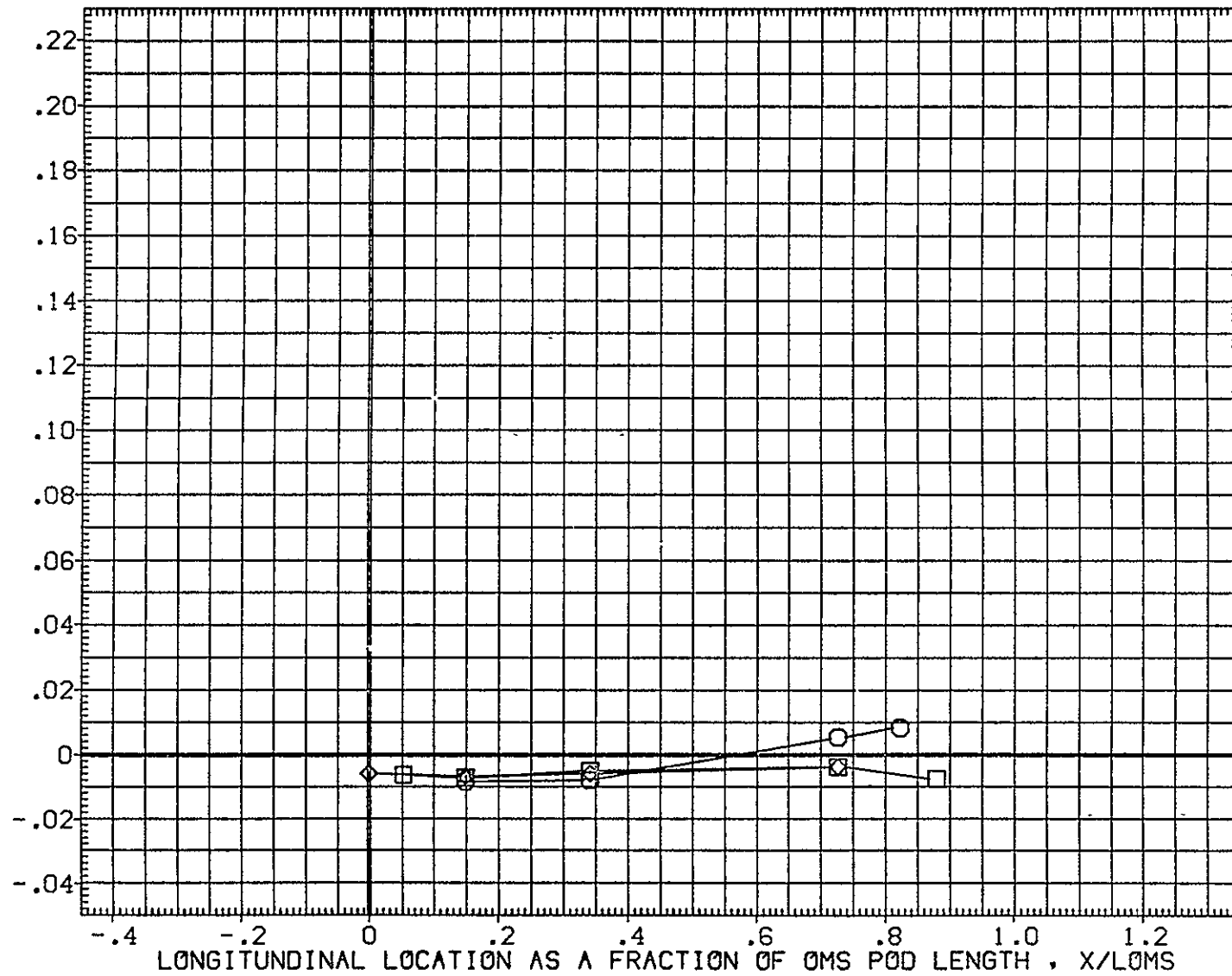


FIG. 6 OMS PODS



ARC 3.5-198 OH38 140C ORB OMS PODS

(BEZC16)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	7.320	19.582
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

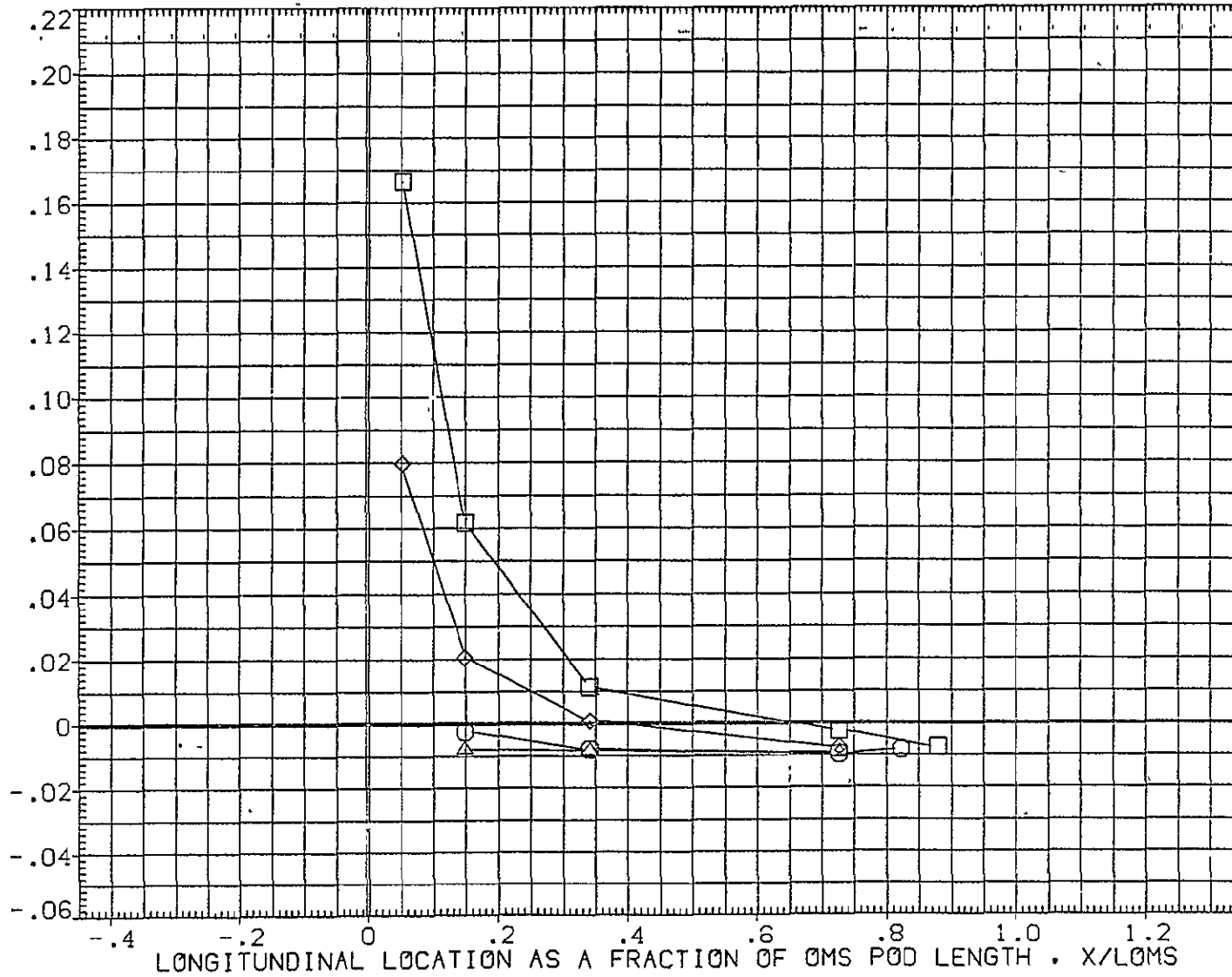


FIG. 6 OMS PODS

SYMBOL  
 ○  
 □  
 ◇  
 △

ROW NO  
 1.000  
 2.000  
 3.000  
 4.000

MACH  
 7.320

ALPHA  
 24.797

PARAMETRIC VALUES

BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

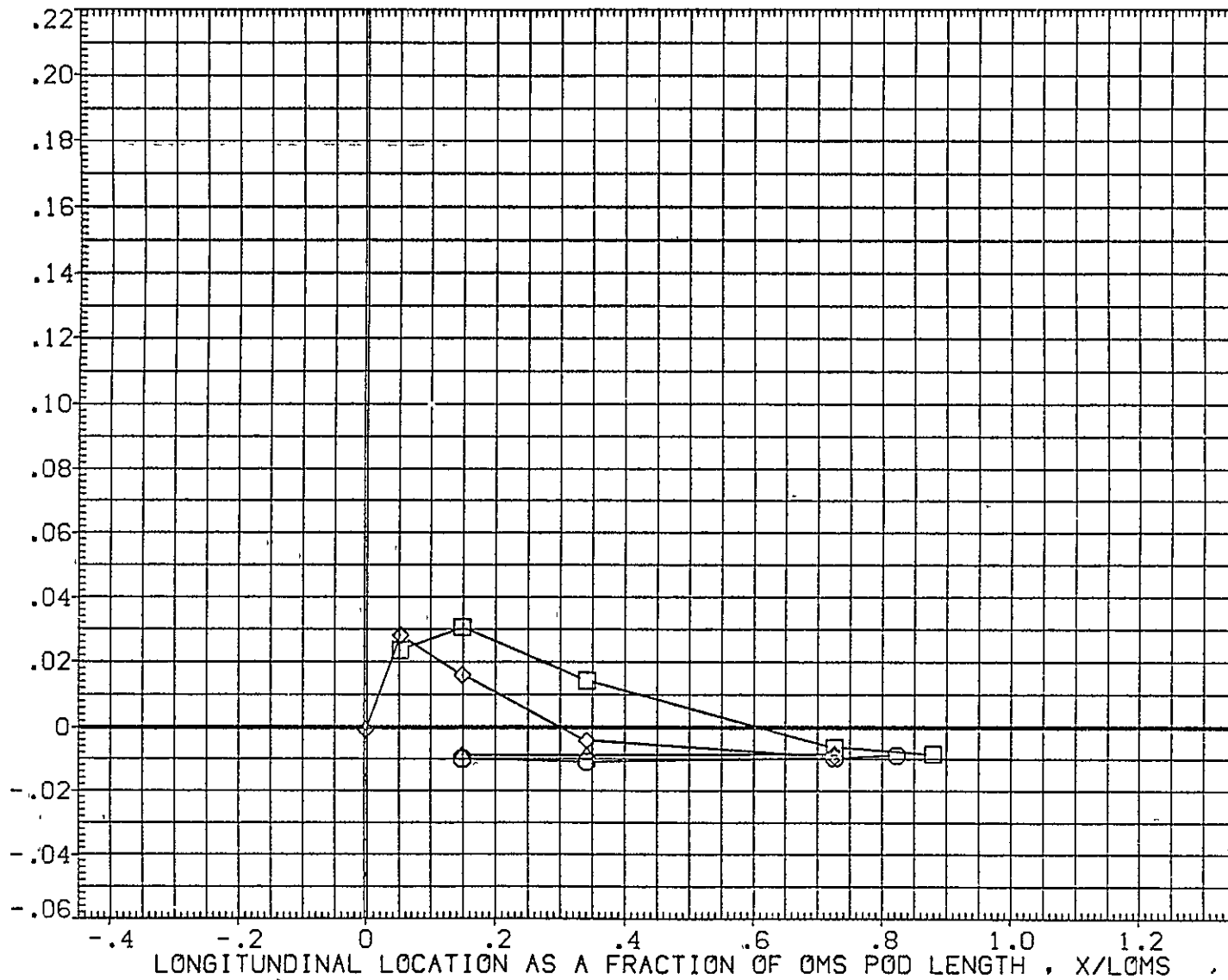


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(BEZC16)

SYMBOL

○

□

◇

△

ROW NO

1.000

2.000

3.000

4.000

MACH

7.320

ALPHA

29.720

PARAMETRIC VALUES

BETA

-1.000

ELEV-L

.117

ELEV-R

.000

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

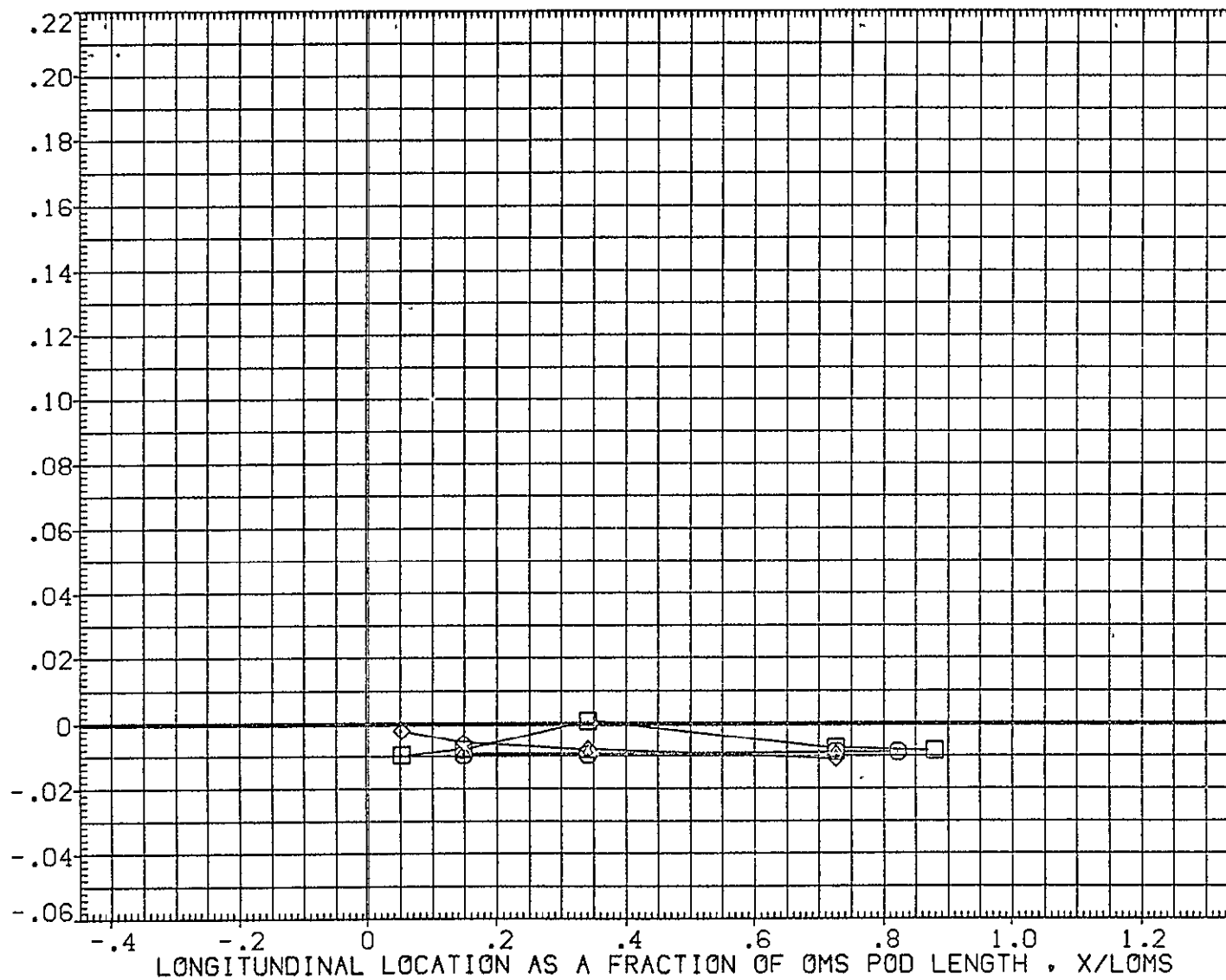


FIG. 6 OMS PODS

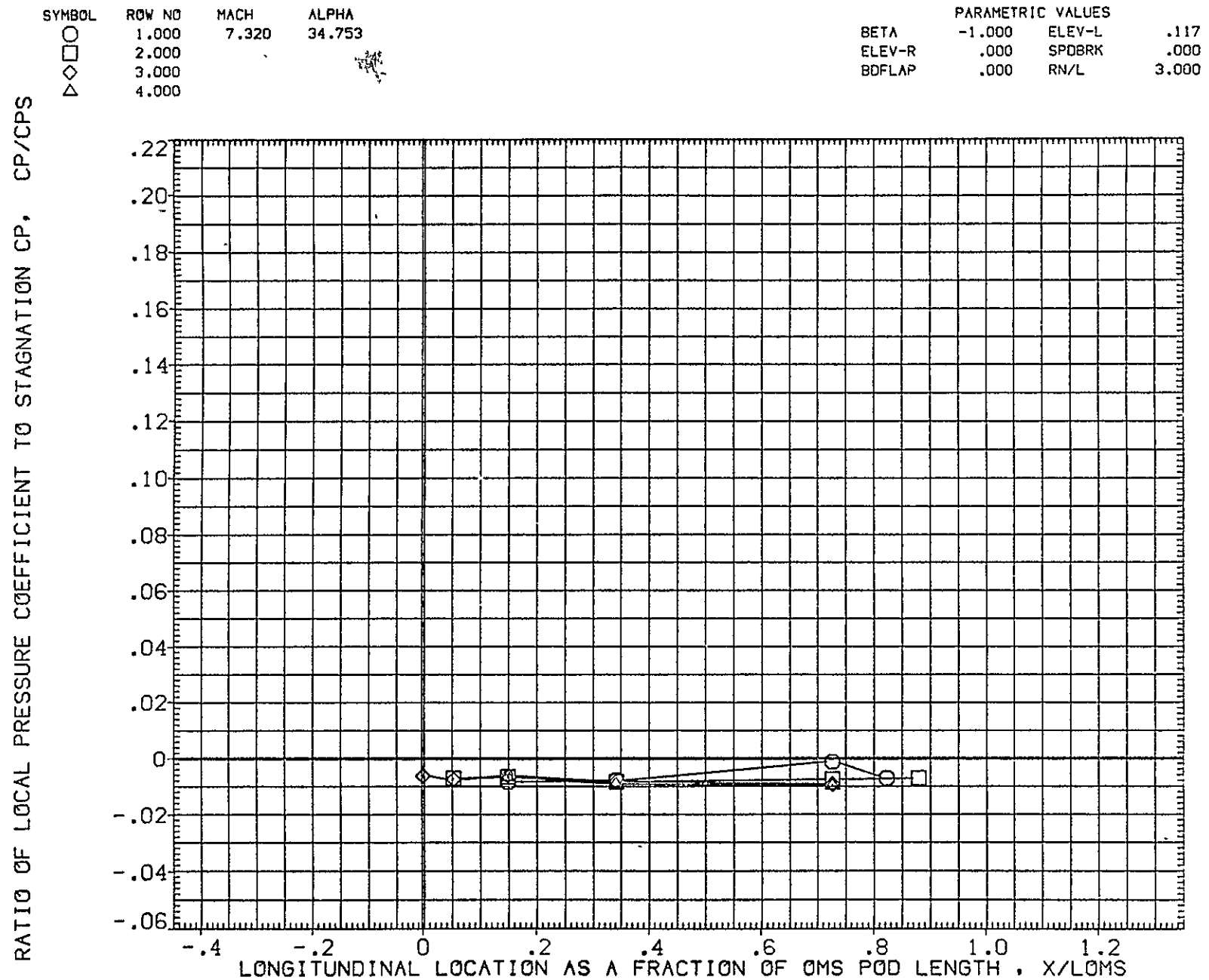


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB 0MS PODS

(BEZC20)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	10.290	19.744
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

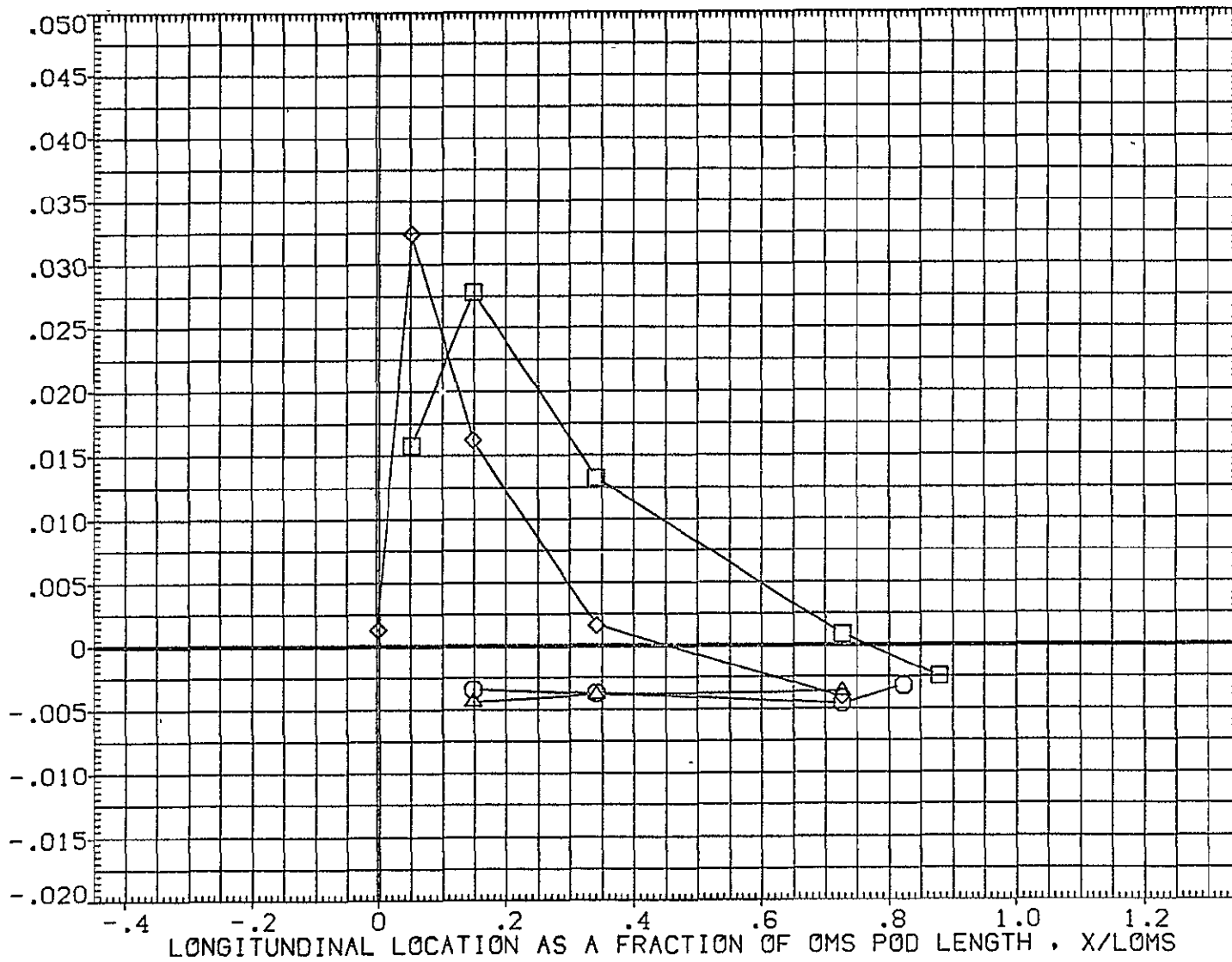


FIG. 6 OMS PODS

SYMBOL  
 ○  
 ◇  
 □  
 △

ROW NO  
 1.000  
 2.000  
 3.000  
 4.000

MACH  
 10.290

ALPHA  
 24.851

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

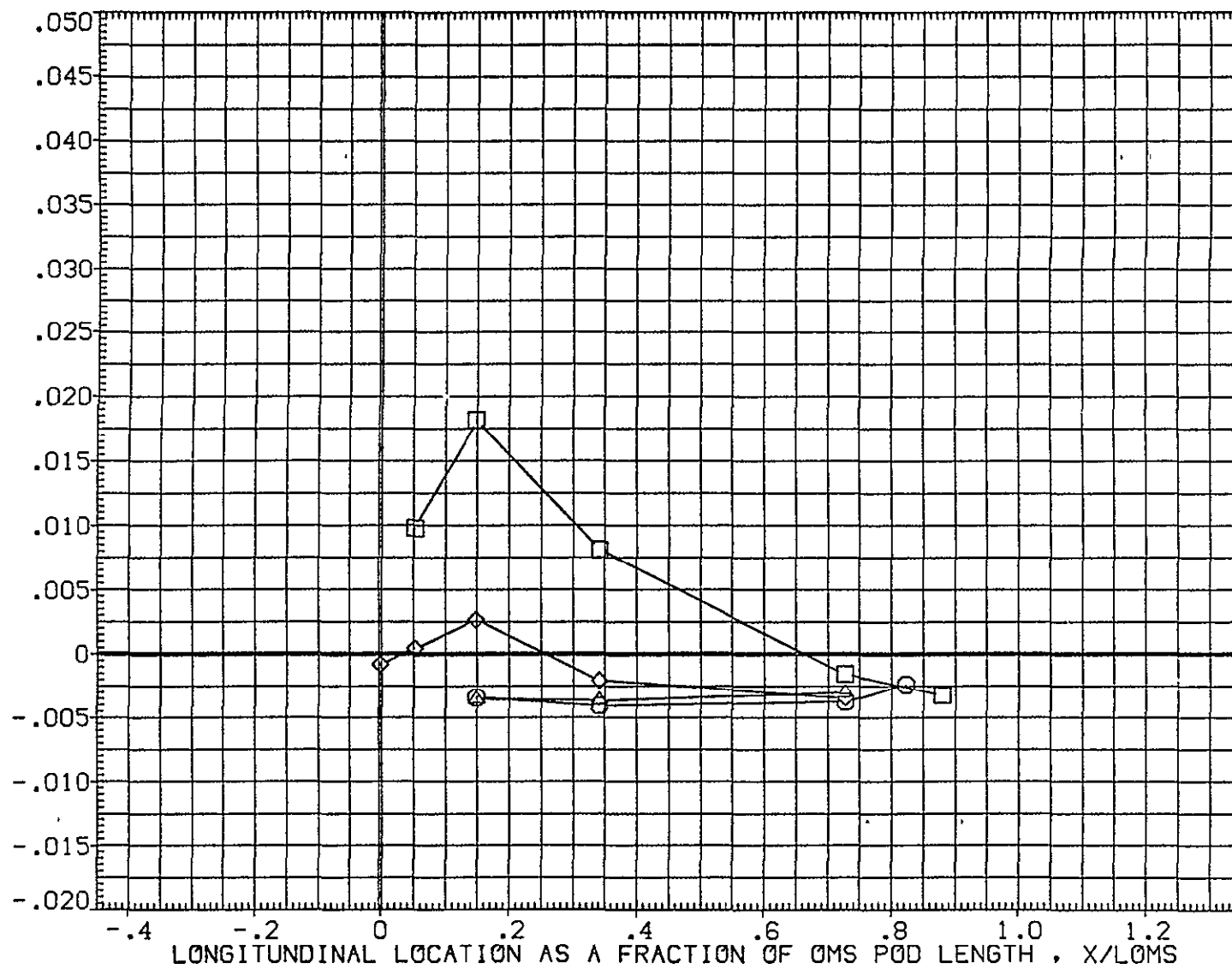


FIG. 6 OMS PODS

ARC 3.5-198 0438 140C 0RB 0MS PODS

(BEZC20)

SYMBOL  
○  
□  
◇  
△

ROW NO	MACH	ALPHA
1.000	10.290	29.725
2.000		
3.000		
4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

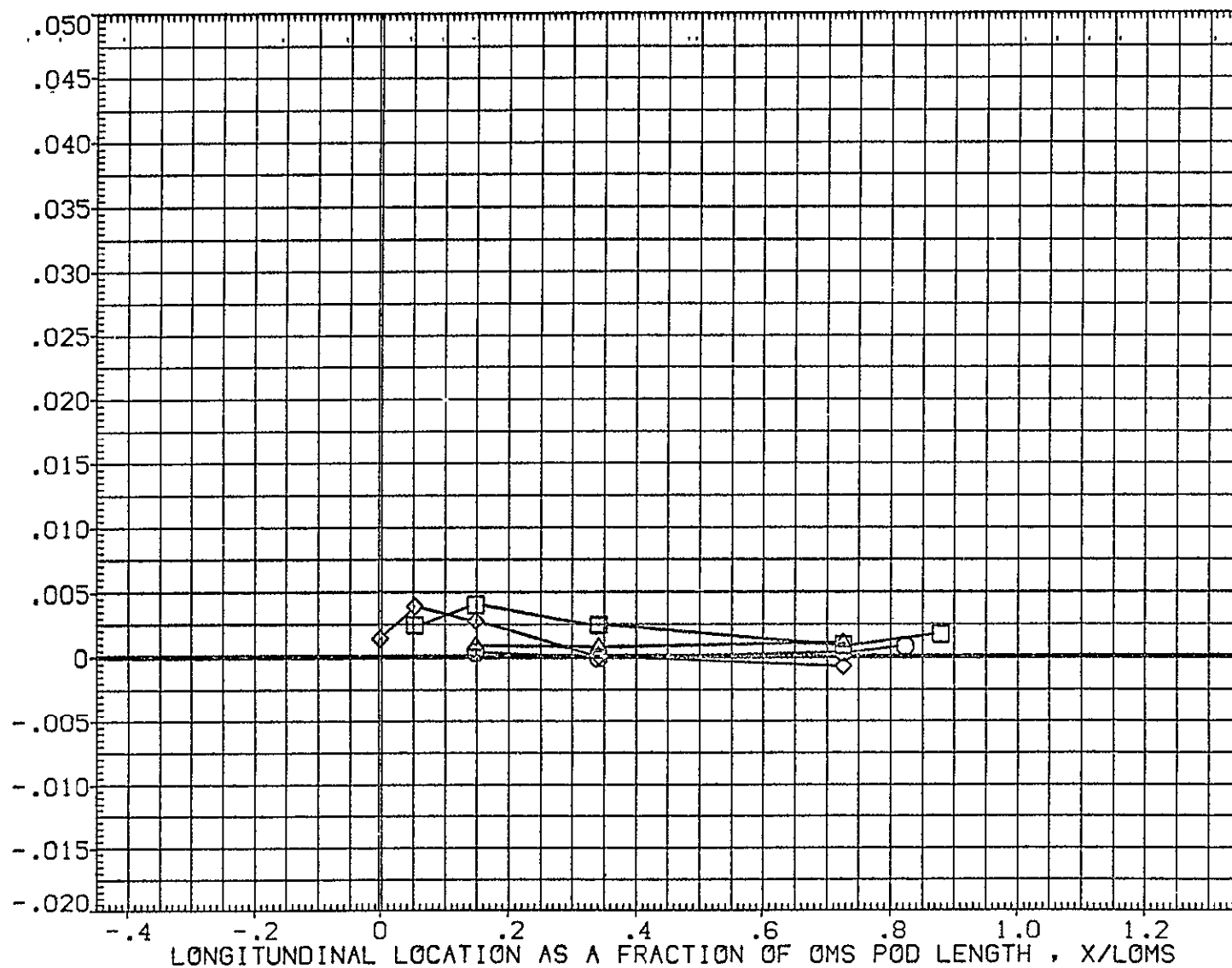


FIG. 6 OMS PODS

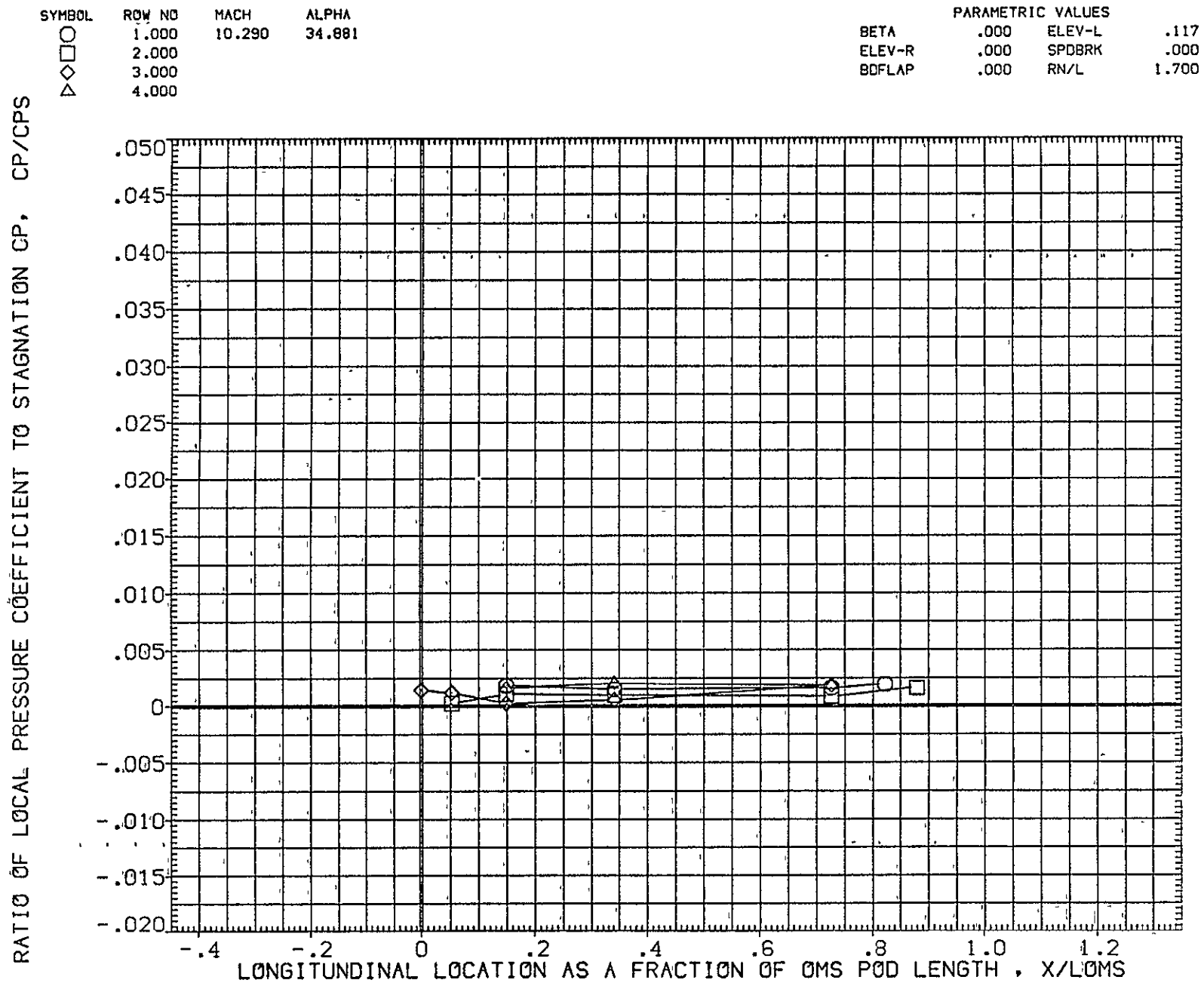


FIG. 6 OMS PODS



ARC 3.5-198 0H38 140C 0RB 0MS PODS

(BEZC20)

SYMBOL	ROW NO	MACH	ALPHA
○	1.000	10.290	39.932
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

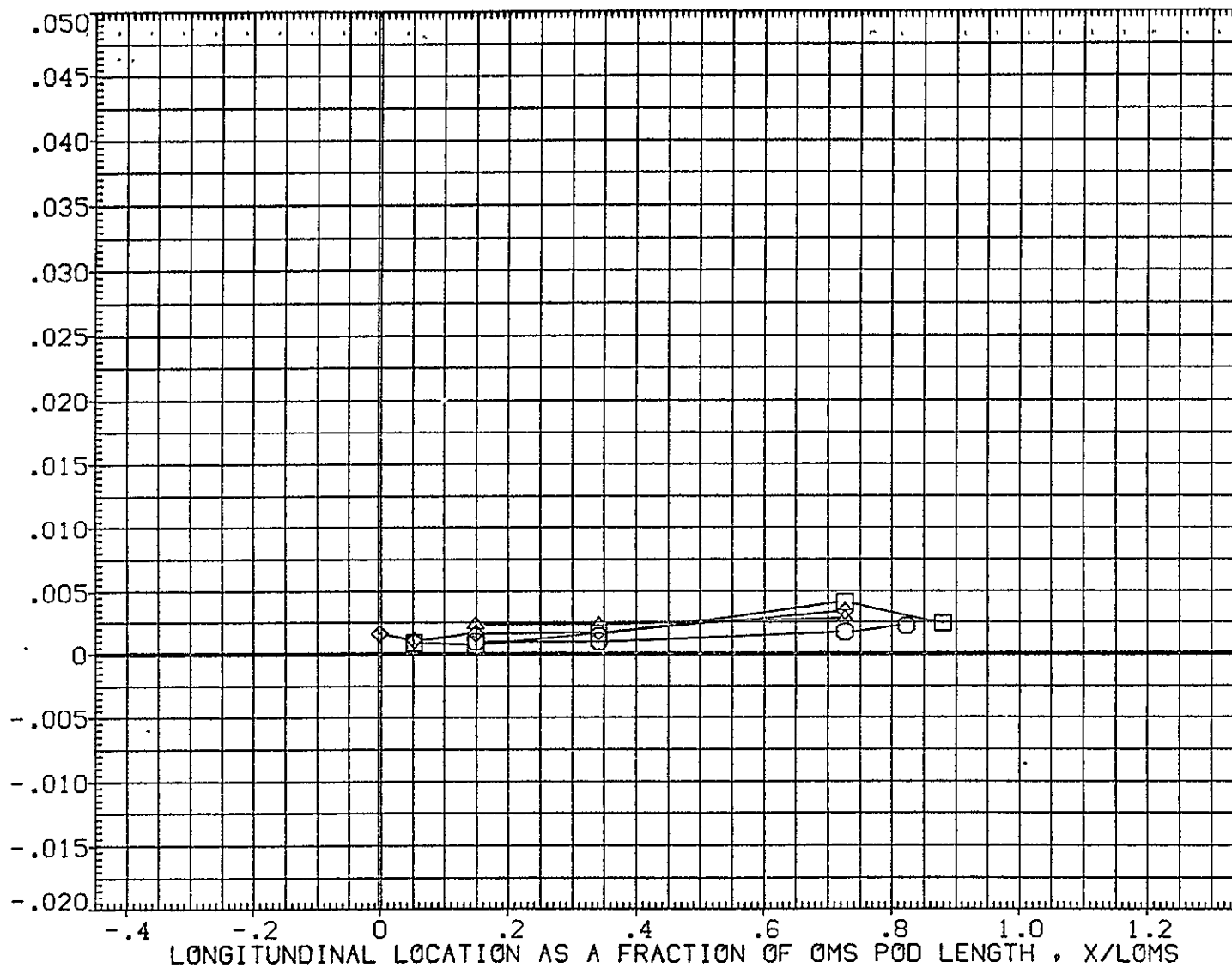


FIG. 6 OMS PODS

SYMBOL	ROW NO	MACH	ALPHA	PARAMETRIC VALUES			
○	1.000	10.290	44.136	BETA	.000	ELEV-L	.117
□	2.000			ELEV-R	.000	SPDBRK	.000
◇	3.000			BDFLAP	.000	RN/L	1.700
△	4.000						

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

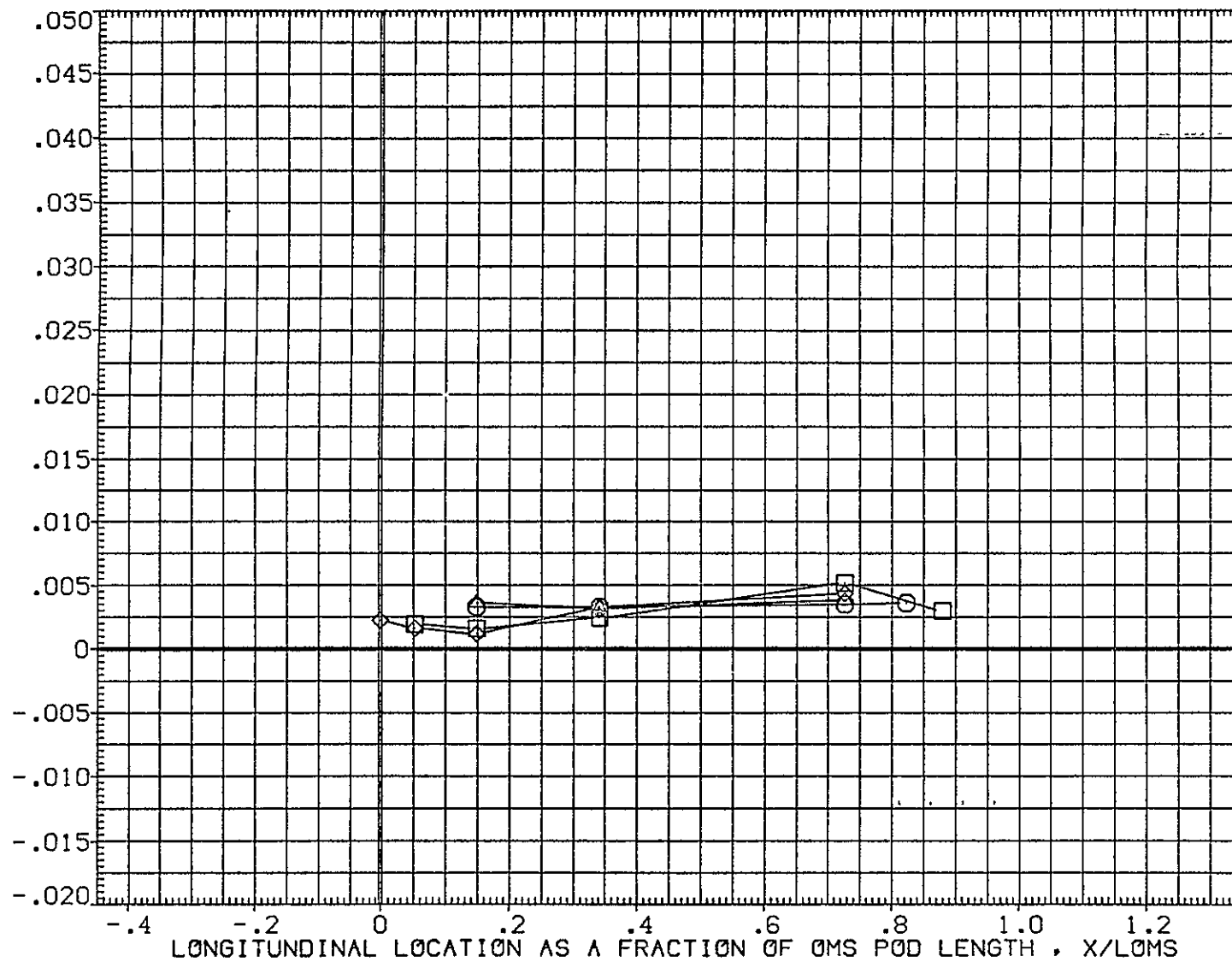


FIG. 6 OMS PODS

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(BEZB35)

SYMBOL

○  
□  
◇

ALPHA

19.261

29.509

39.947

BL

.000

MACH

7.320

PARAMETRIC VALUES

BETA

.000

ELEV-L

.000

ELEV-R

.000

SPDBRK

41.533

BDFLAP

15.667

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

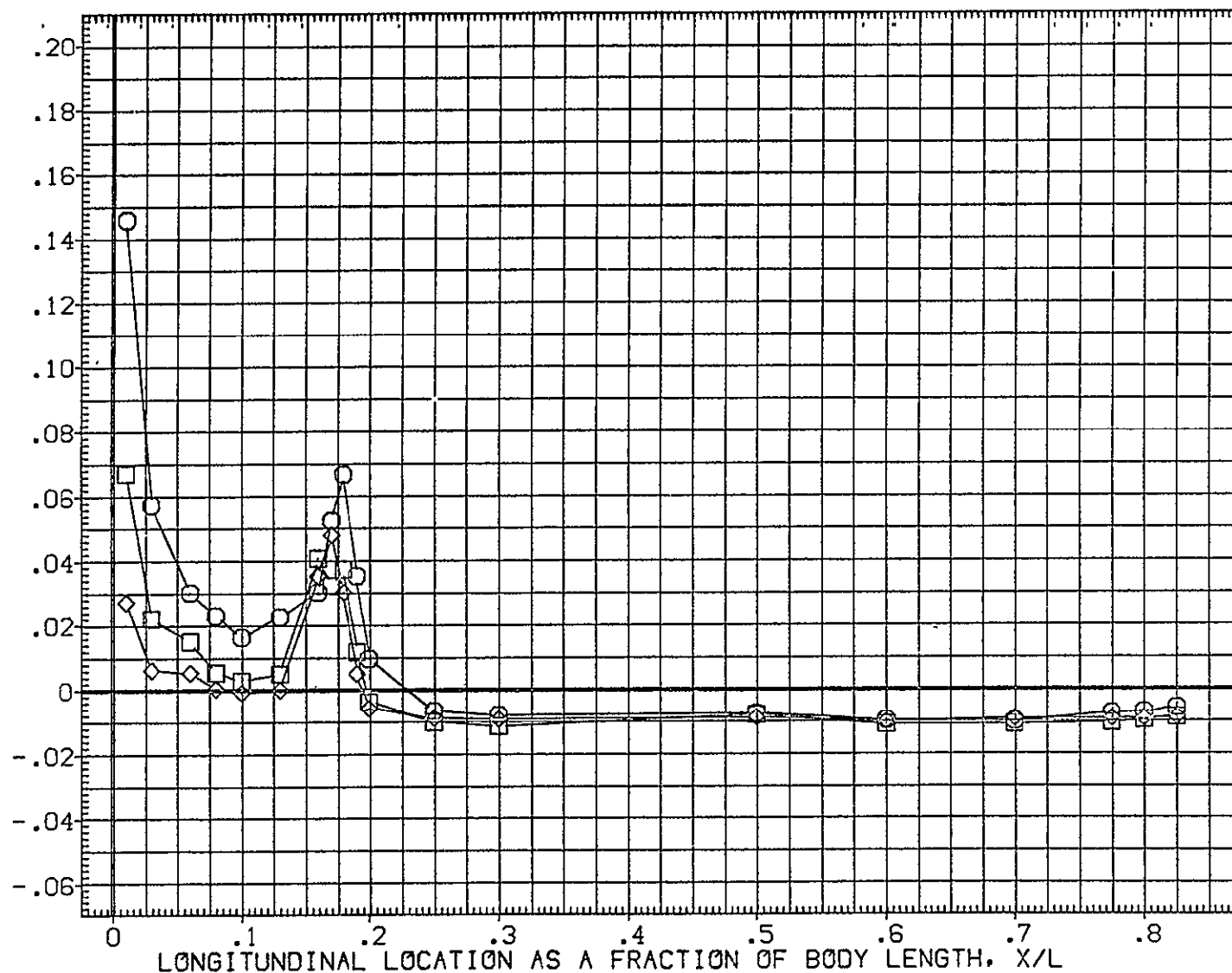


FIG. 7 TOP CENTERLINE

SYMBOL

ALPHA

BL

MACH

PARAMETRIC VALUES

○  
□  
◇

24.886

.000

7.320

BETA

.000

ELEV-L

.000

ELEV-R

.000

SPDBRK

41.533

BDFLAP

15.667

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

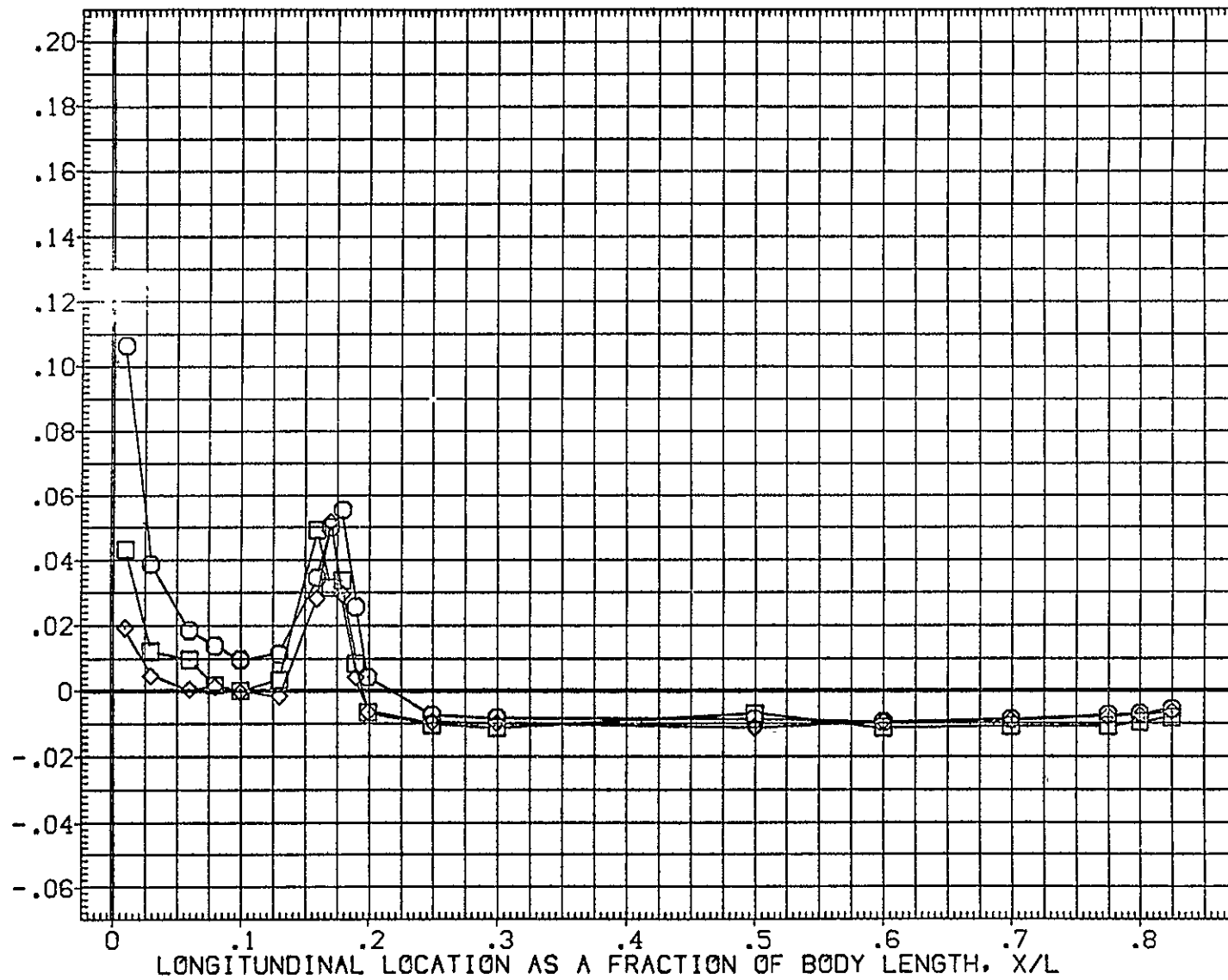


FIG. 7 TOP CENTERLINE

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(PEZB03)

SYMBOL	ALPHA	BL	MACH
○	19.675	.000	7.320
□	29.494		
◇	39.931		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

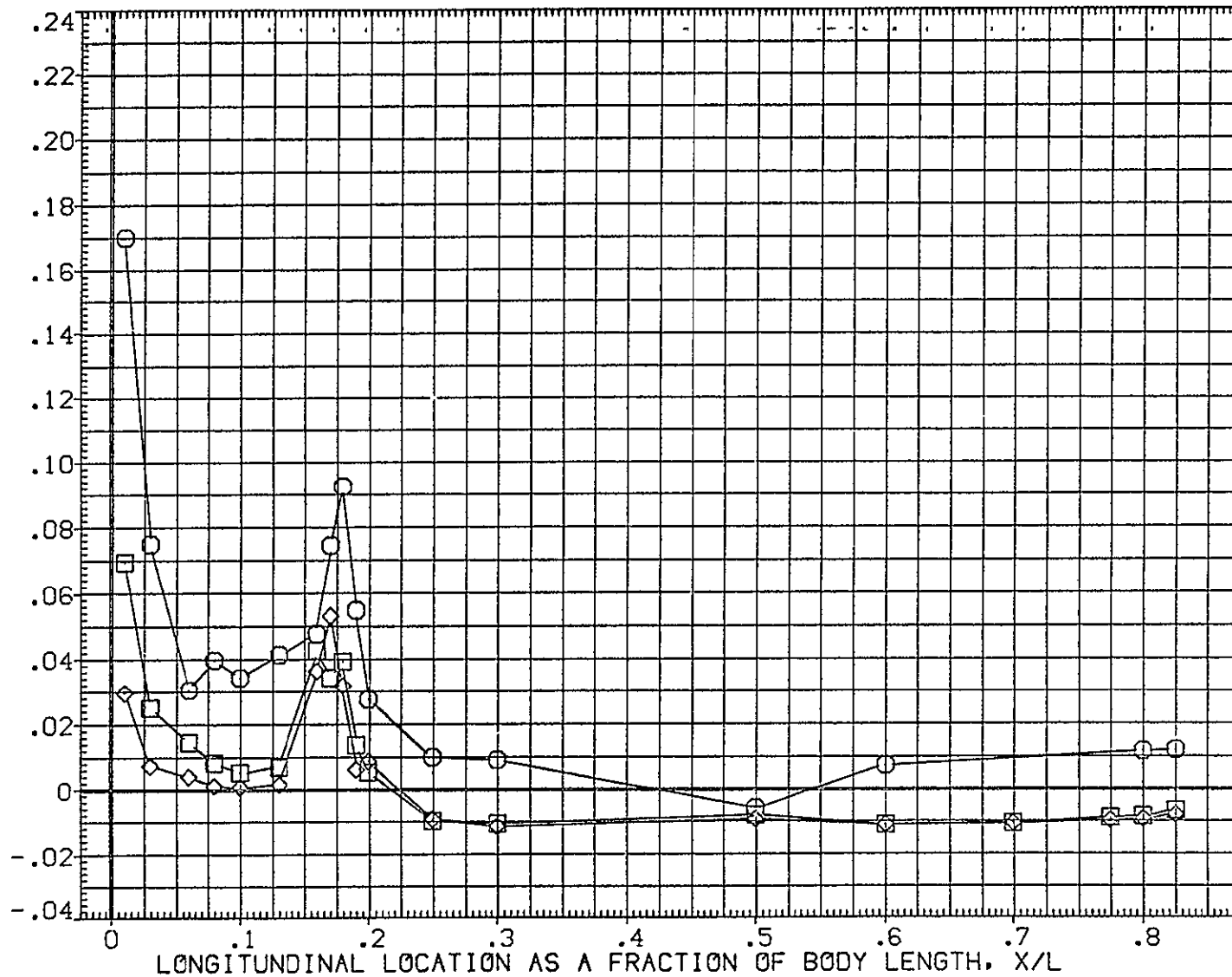


FIG. 7 TOP CENTERLINE

SYMBOL

ALPHA

BL

MACH

○

24.999

.000

7.320

□

34.774

◇

44.174

PARAMETRIC VALUES

BETA

.000

ELEV-L

.117

ELEV-R

.000

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

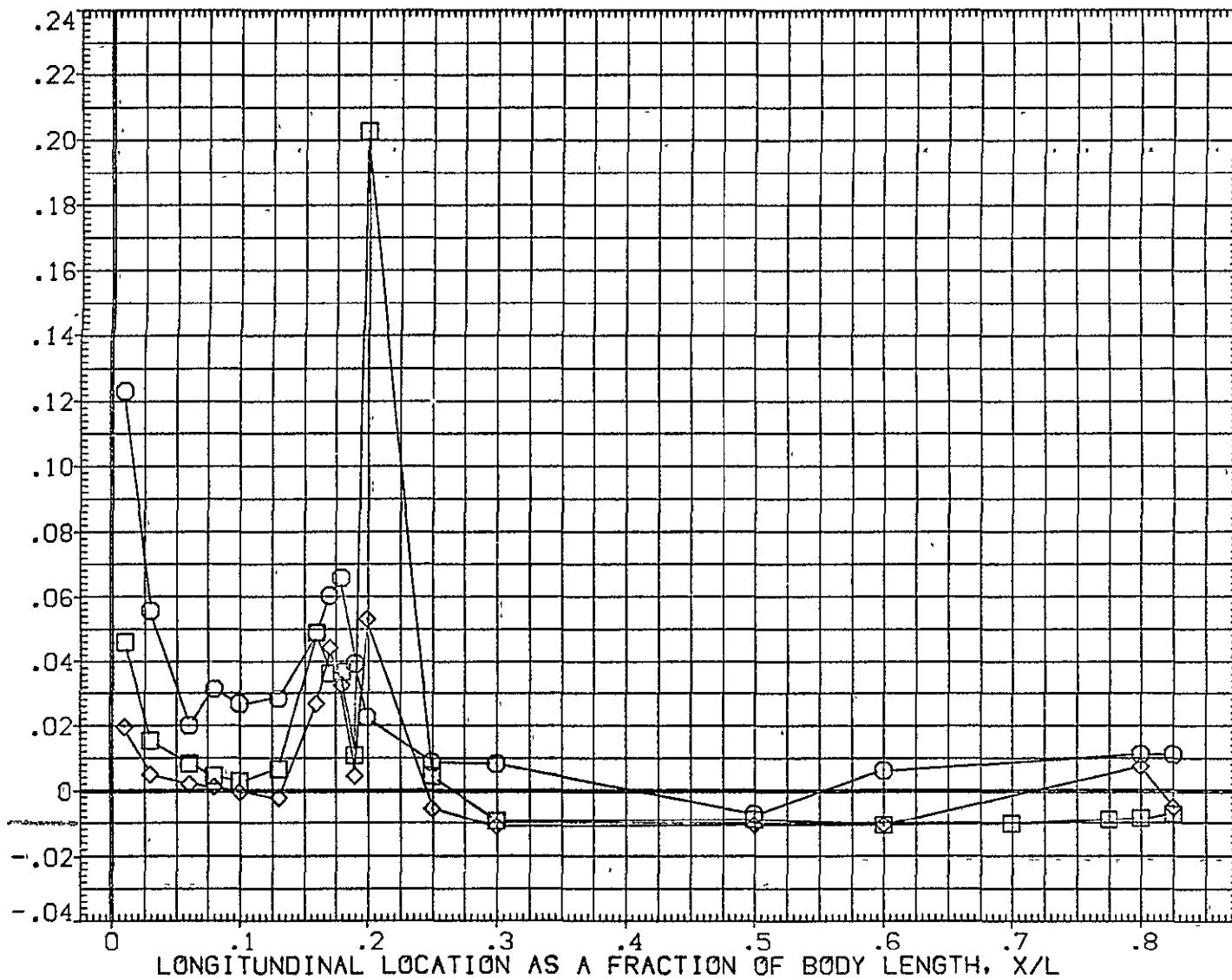


FIG. 7 TOP CENTERLINE

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(PEZB04)

SYMBOL  
○  
□  
◇

ALPHA  
19.776  
29.649  
39.840

BL  
.000

MACH  
7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

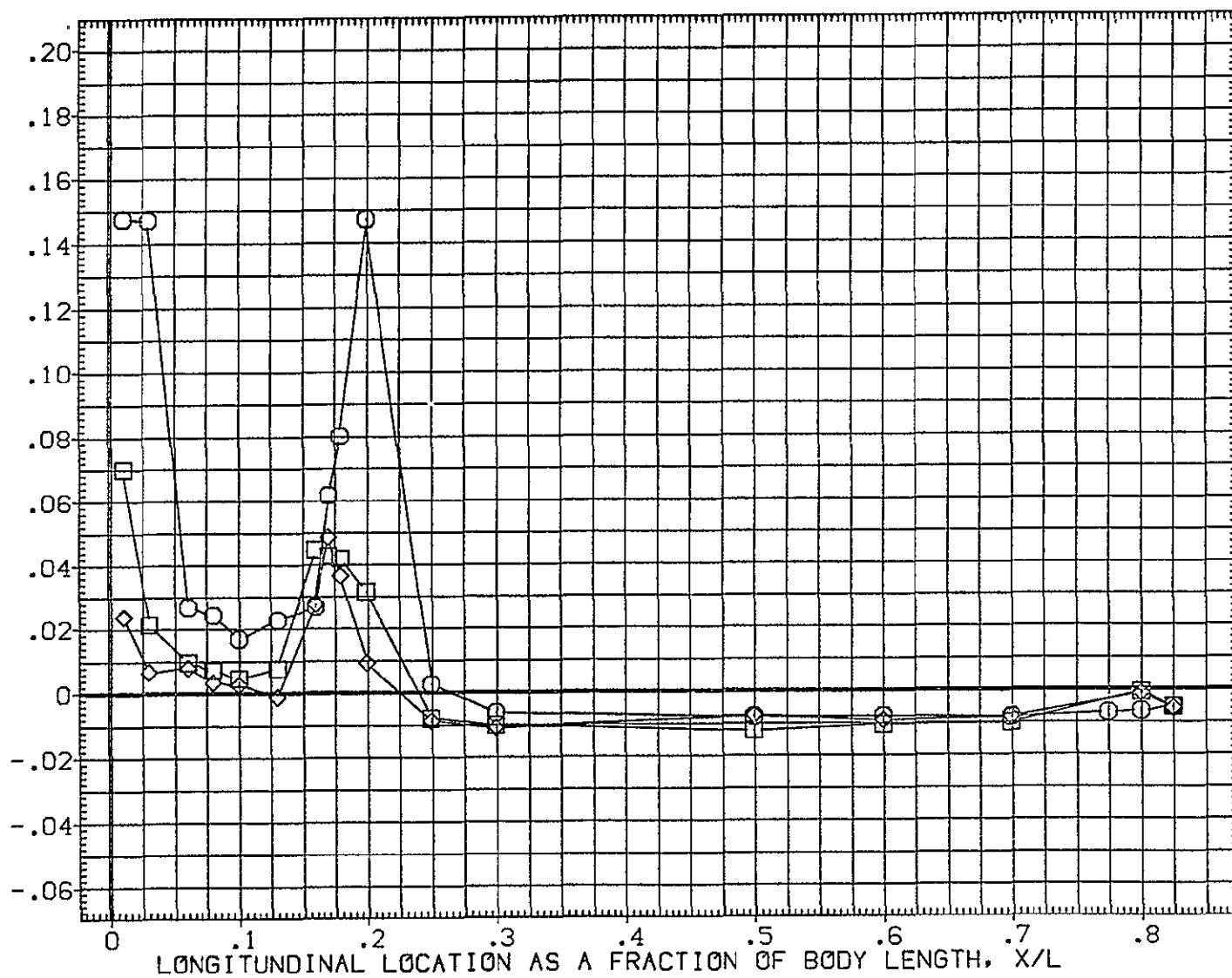


FIG. 7 TOP CENTERLINE

SYMBOL	ALPHA	BL	MACH
○	24.809	.000	7.320
□	34.668		
◇	44.090		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BOFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

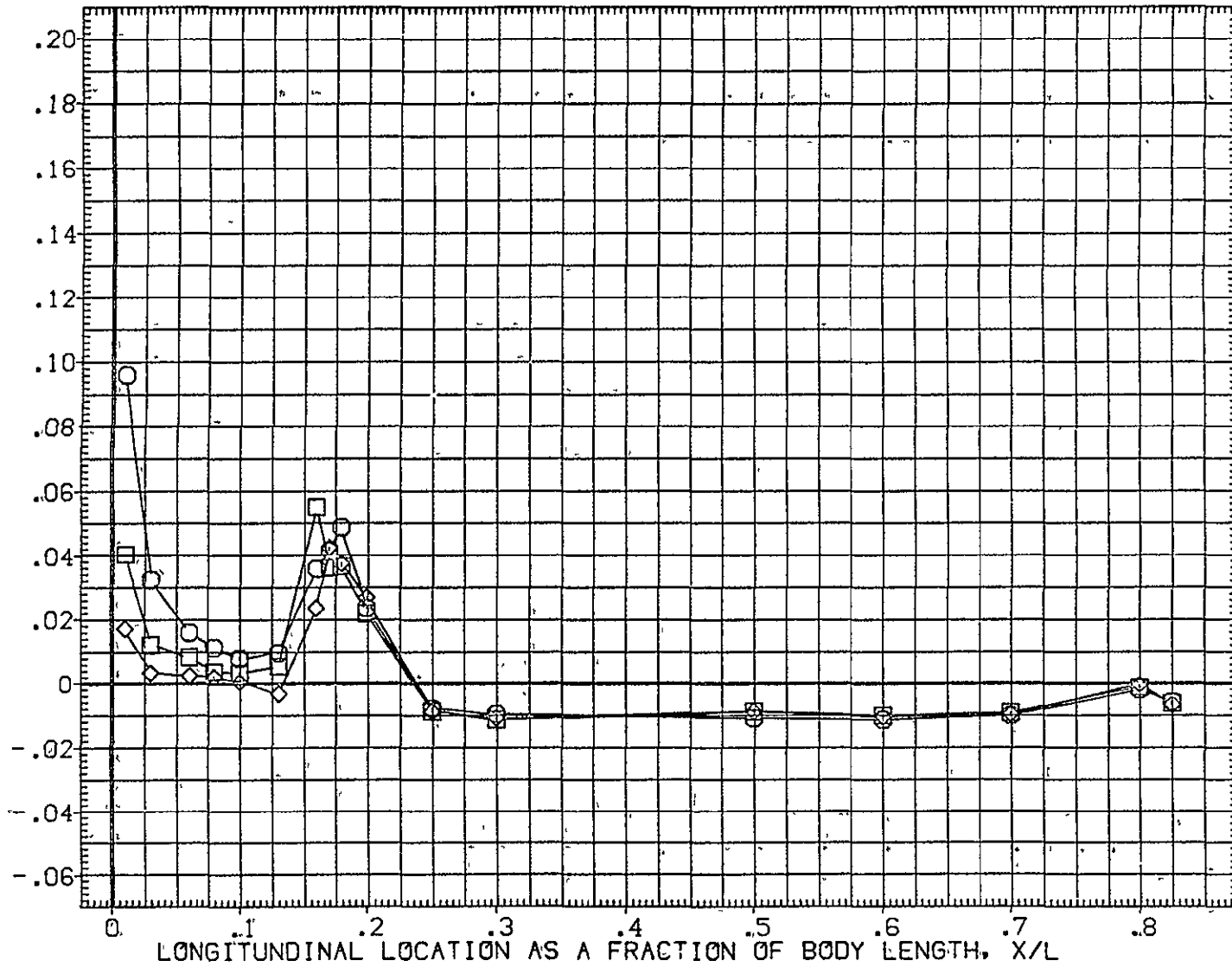


FIG. 7 TOP CENTERLINE



ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(CEZB05)

SYMBOL  
○  
□  
◇

ALPHA  
19.496  
29.560  
39.911

BL  
.000

MACH  
7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

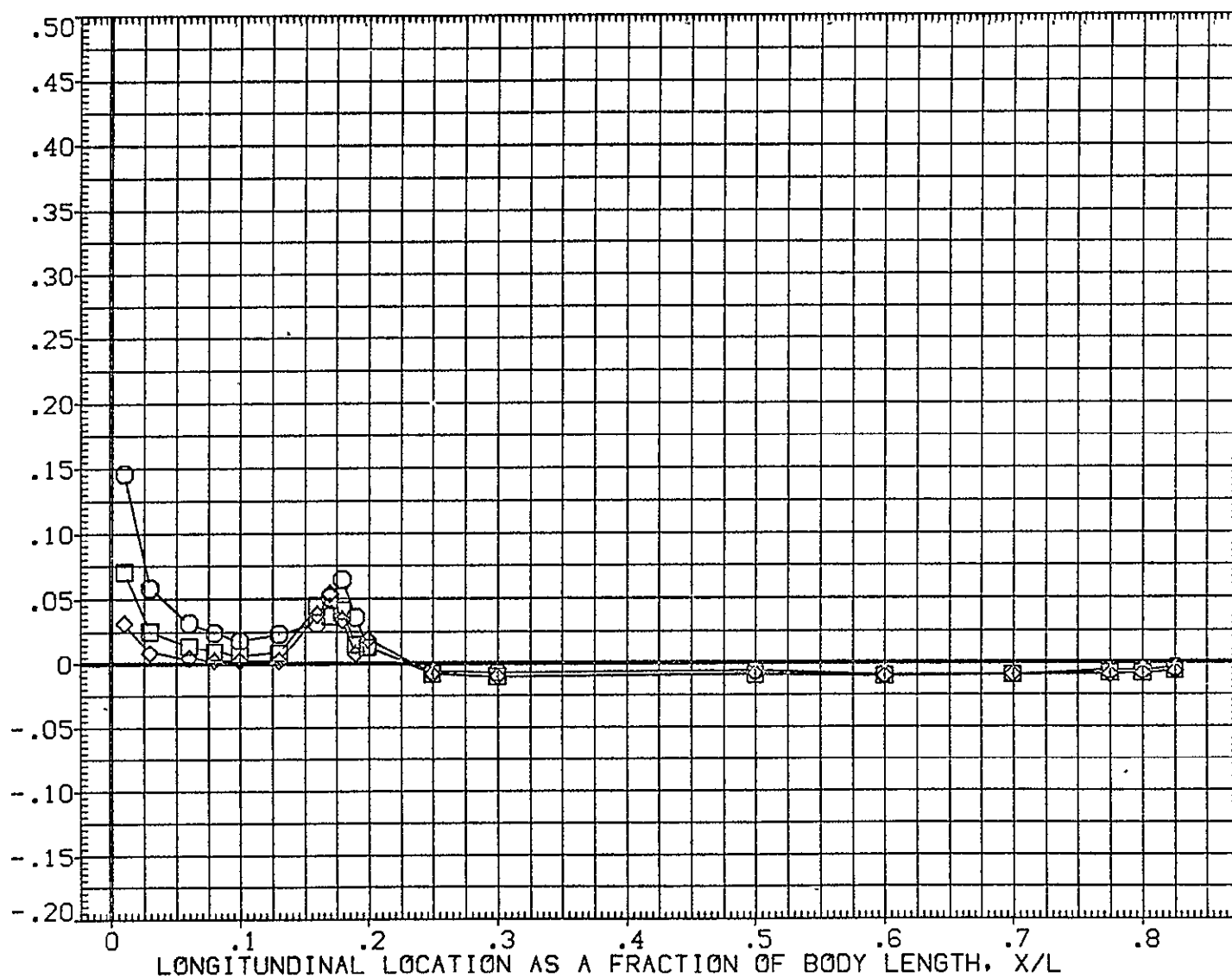


FIG. 7 TOP CENTERLINE

SYMBOL

ALPHA

BL

MACH

○  
□

32.095

.000

7.320

PARAMETRIC VALUES

BETA

.000

ELEV-L

5.050

ELEV-R

4.100

SPDBRK

.000

BOFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

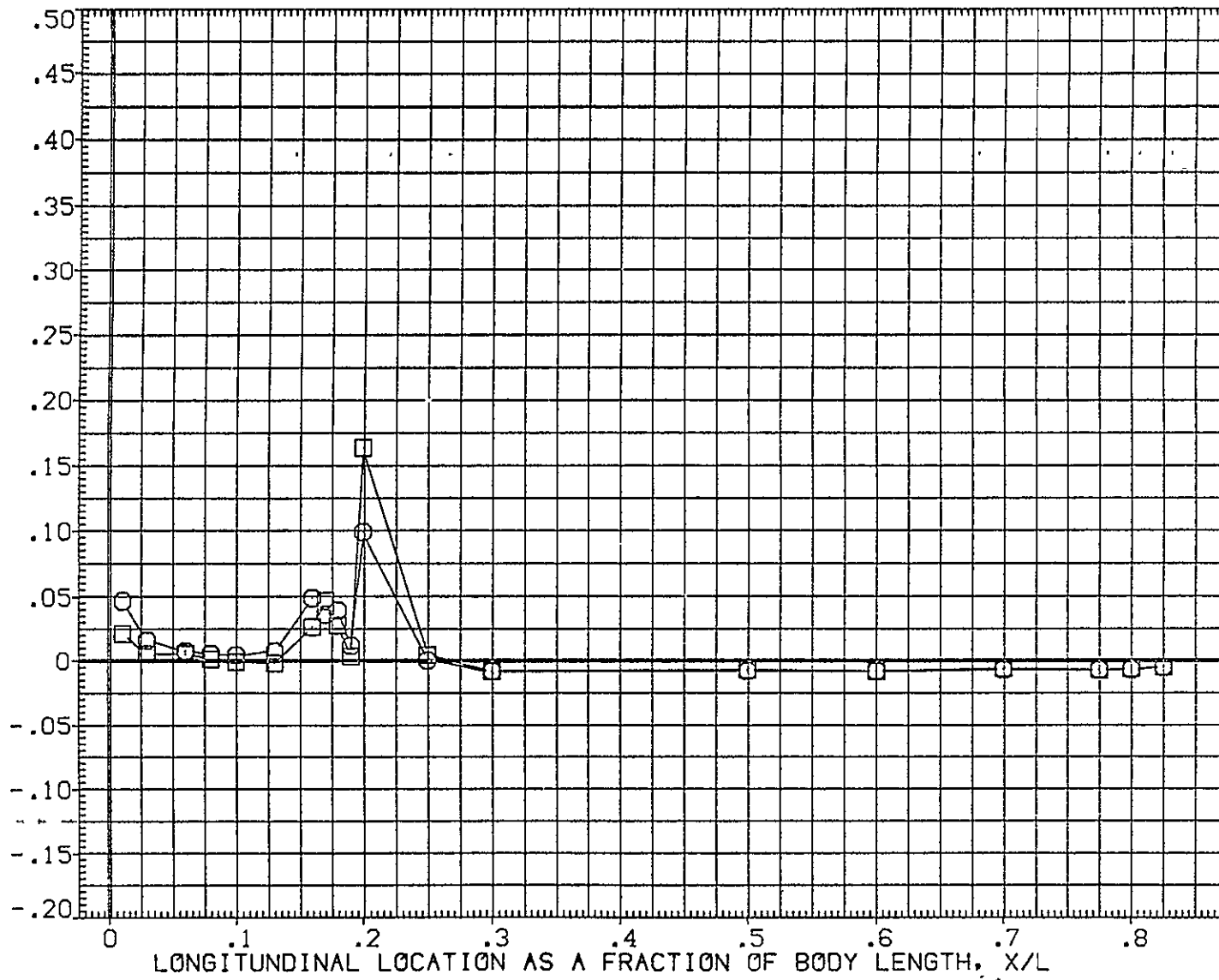


FIG. 7 TOP CENTERLINE

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(PEZB07)

SYMBOL	ALPHA	BL	MACH
○	19.132	.000	7.320
□	29.758		
◇	39.891		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDRK	.000
BDFLAP	15 667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

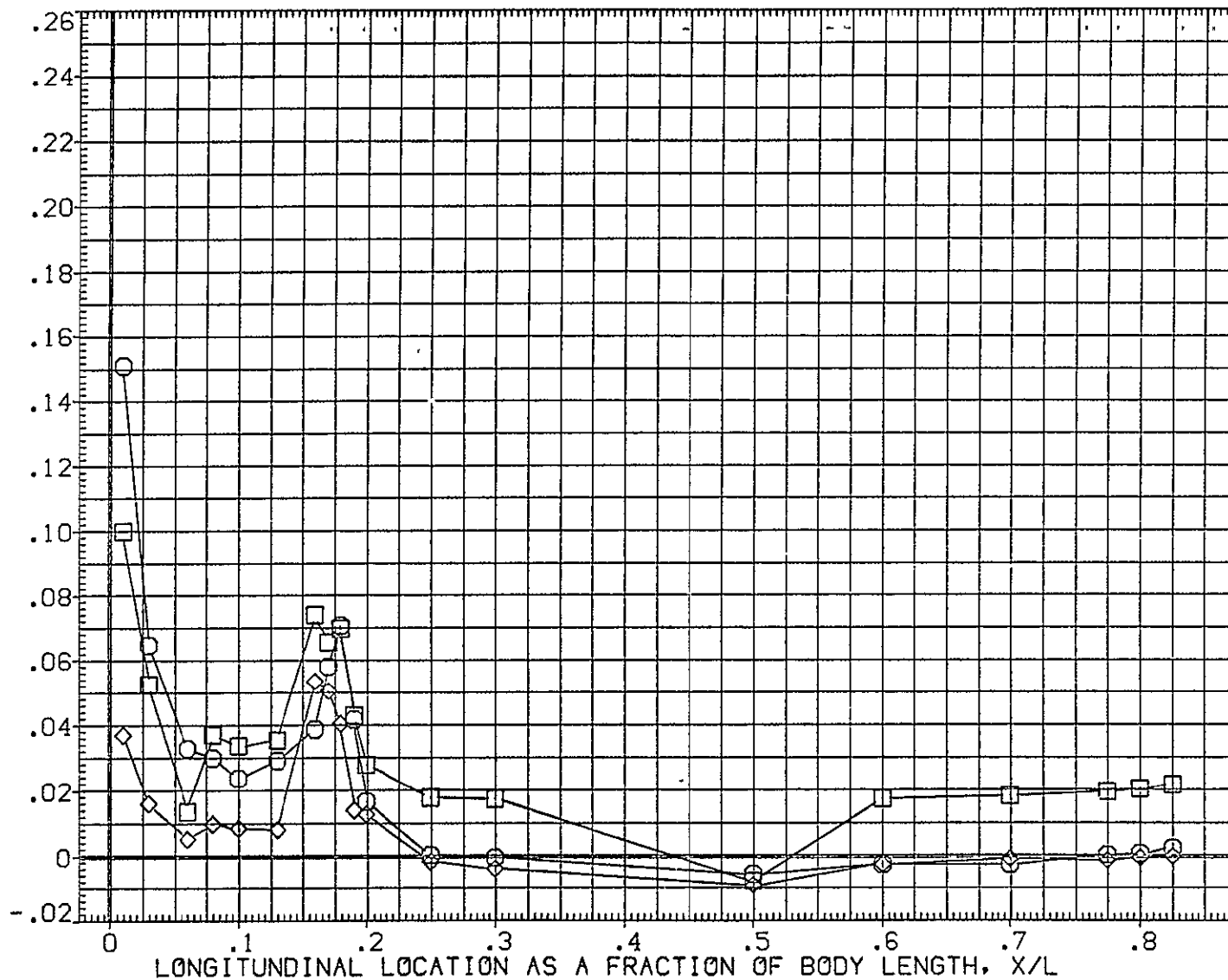


FIG. 7 TOP CENTERLINE

SYMBOL

○  
□  
◇

ALPHA

24.590

35.000

44 091

BL

000

MACH

7.320

PARAMETRIC VALUES

BETA .000 ELEV-L 5.050

ELEV-R 4.100 SPDBRK .000

BDFLAP 15.667 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

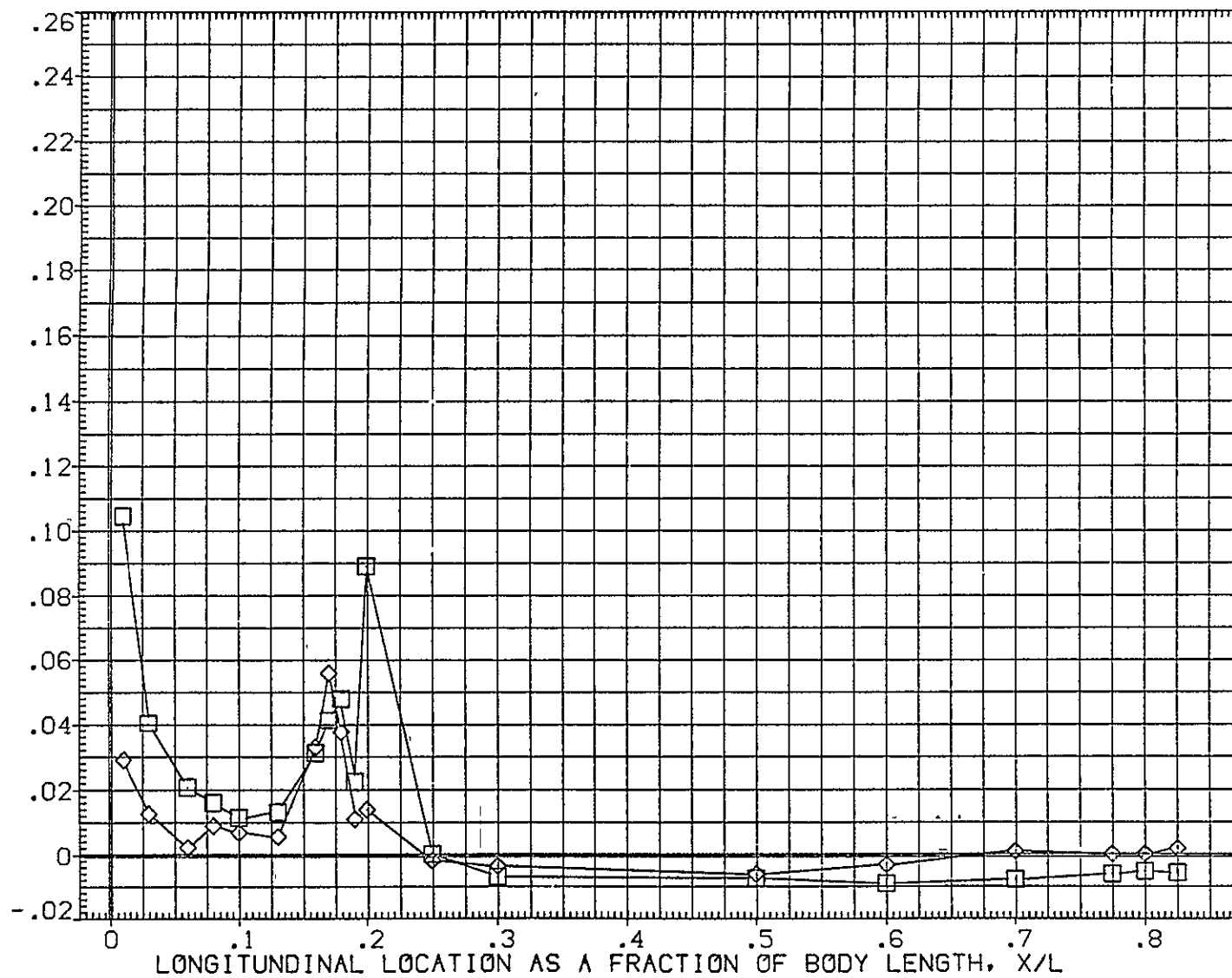


FIG. 7 TOP CENTERLINE

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(PEZB11)

SYMBOL

ALPHA

BL

MACH

PARAMETRIC VALUES

15.000  
25.000  
34.627  
44.081  
48.676

BETA .000 ELEV-L 10.000  
ELEV-R 9.100 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○  
□  
◇  
△

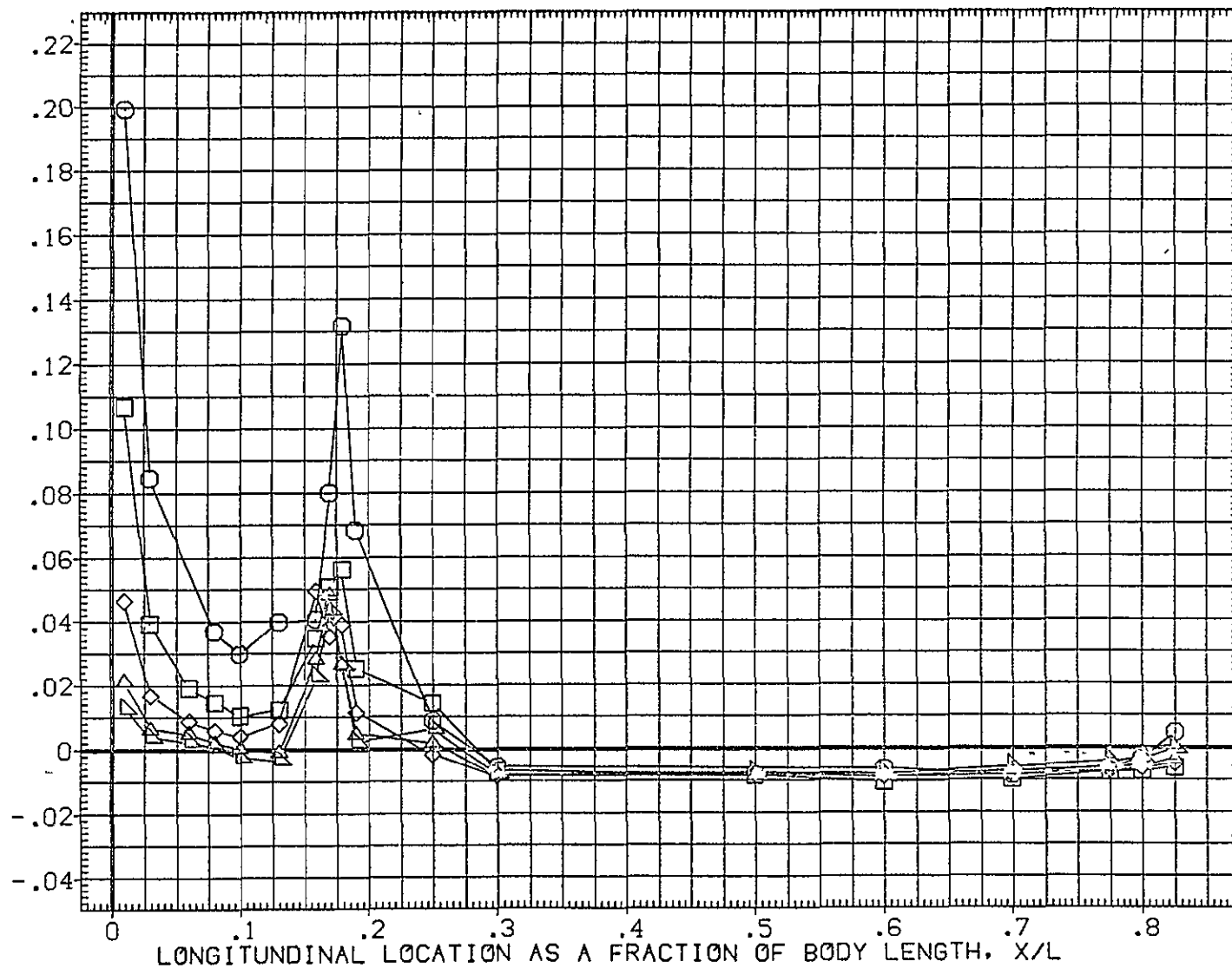


FIG. 7 TOP CENTERLINE

SYMBOL  
○  
□  
◇  
△ALPHA  
15.000  
24.445  
34.863  
44.152  
BL  
000  
MACH  
7.320PARAMETRIC VALUES  
BETA .000 ELEV-L -40.117  
ELEV-R -39.717 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

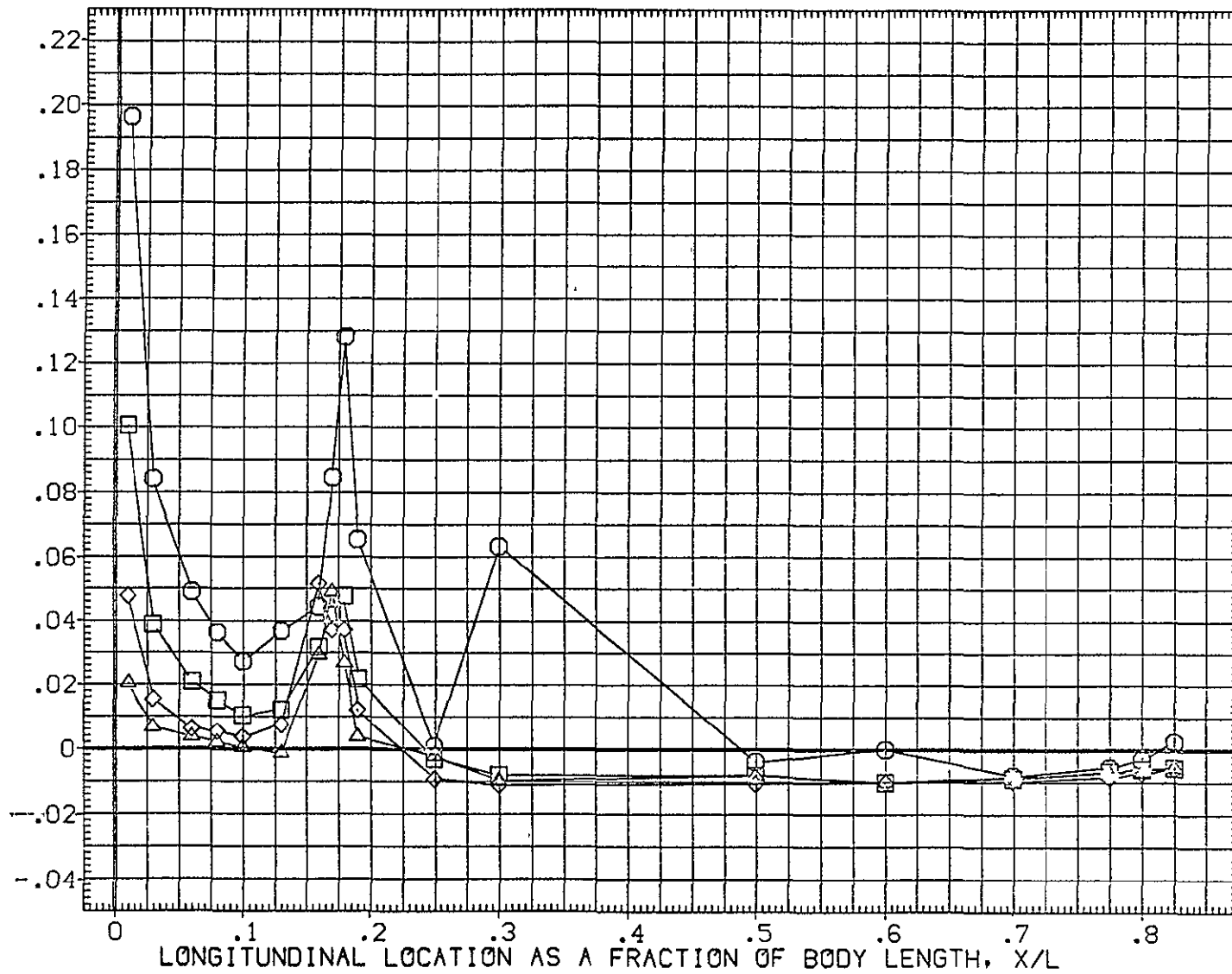


FIG. 7 TOP CENTERLINE

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(PEZB14)

SYMBOL	ALPHA	BL	MACH
○	19.534	.000	7.320
□	29.707		
◇	39.964		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

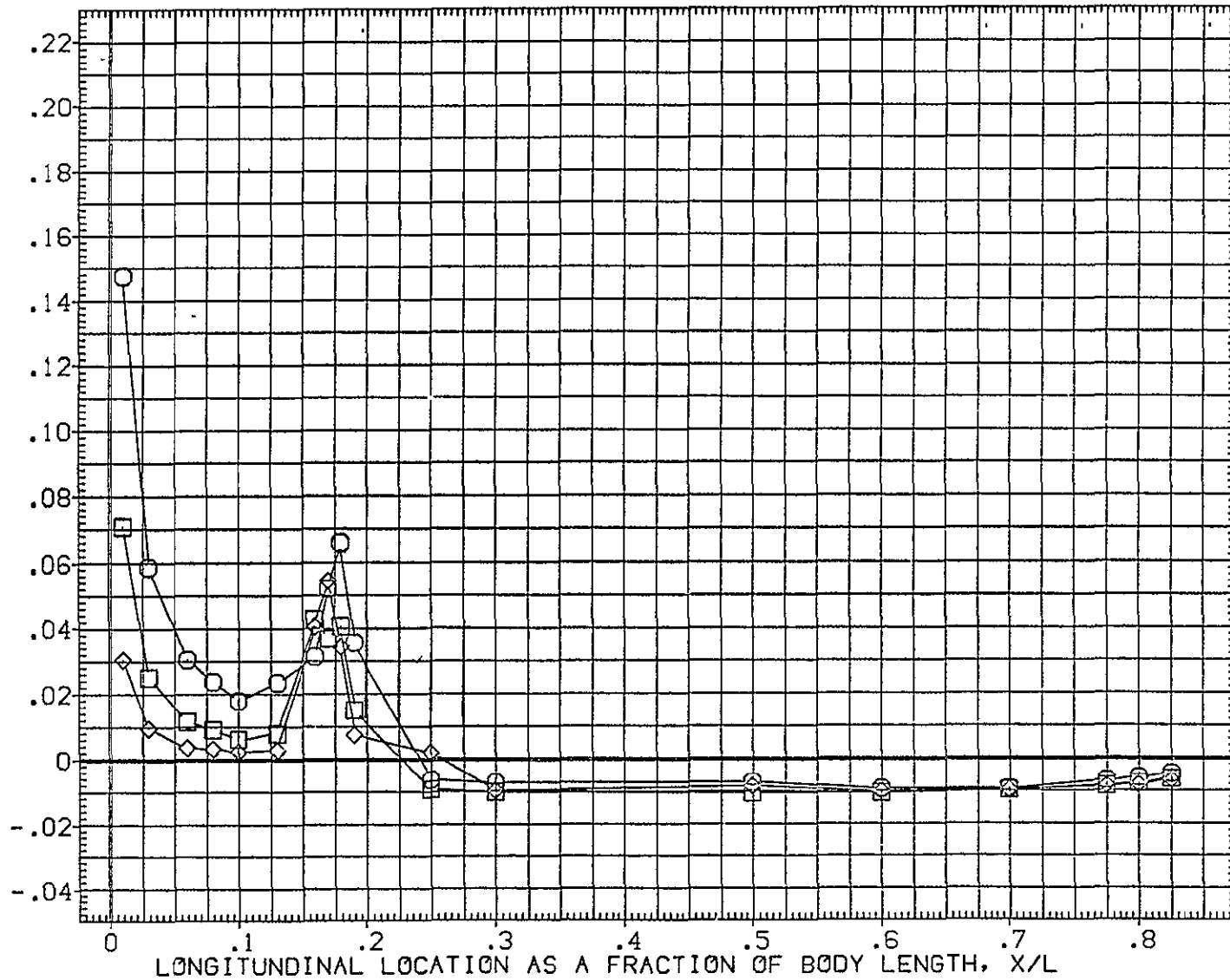


FIG. 7 TOP CENTERLINE

SYMBOL	ALPHA	BL	MACH
○	19.582	.000	7.320
□	29 720		
◇	48 717		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	117
ELEV-R	.000	SPDRK	.000
BDELAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

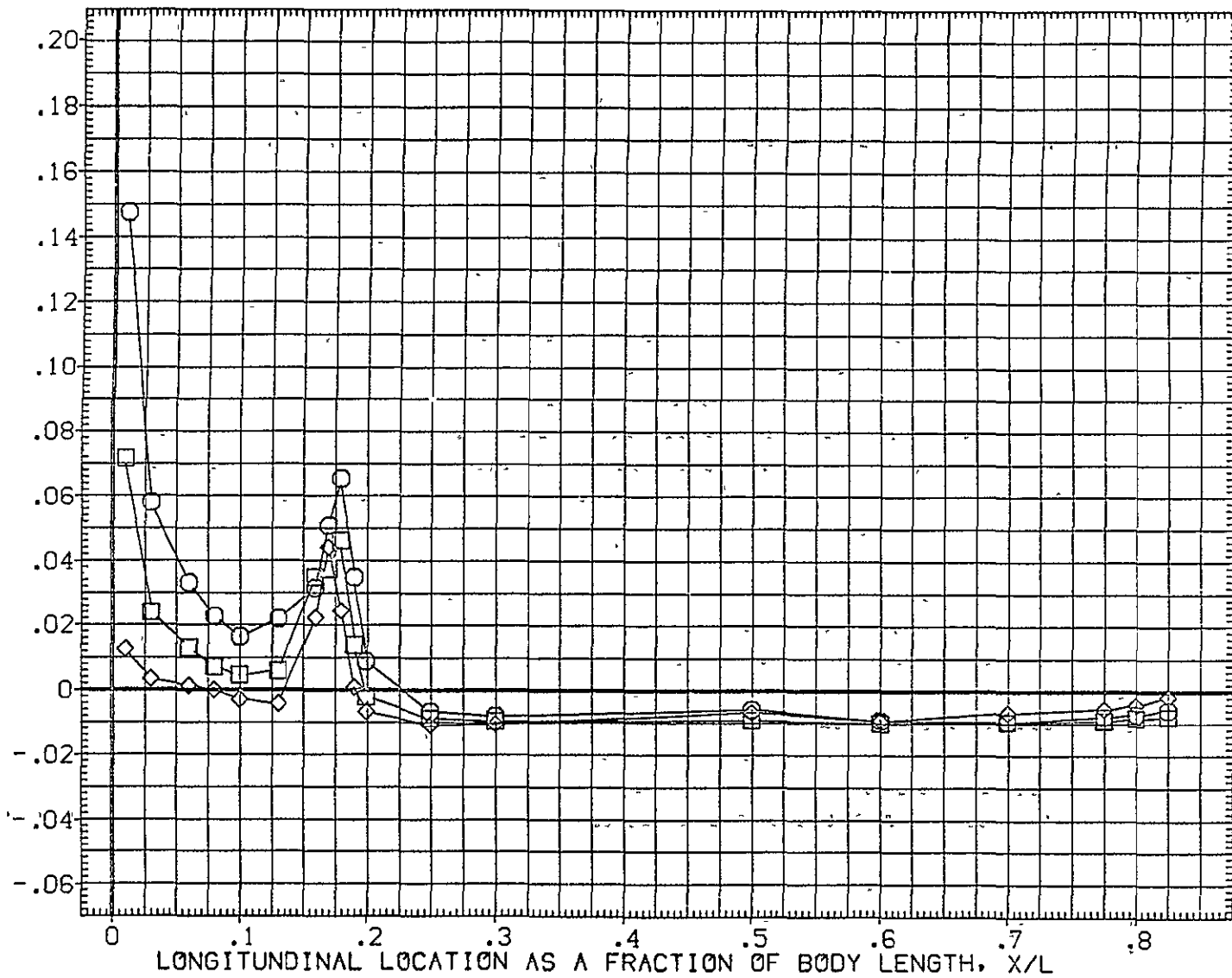


FIG. 7 TOP CENTERLINE



ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(0EZB16)

SYMBOL	ALPHA	BL	MACH
○	24.797	.000	7.320
□	34.753		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

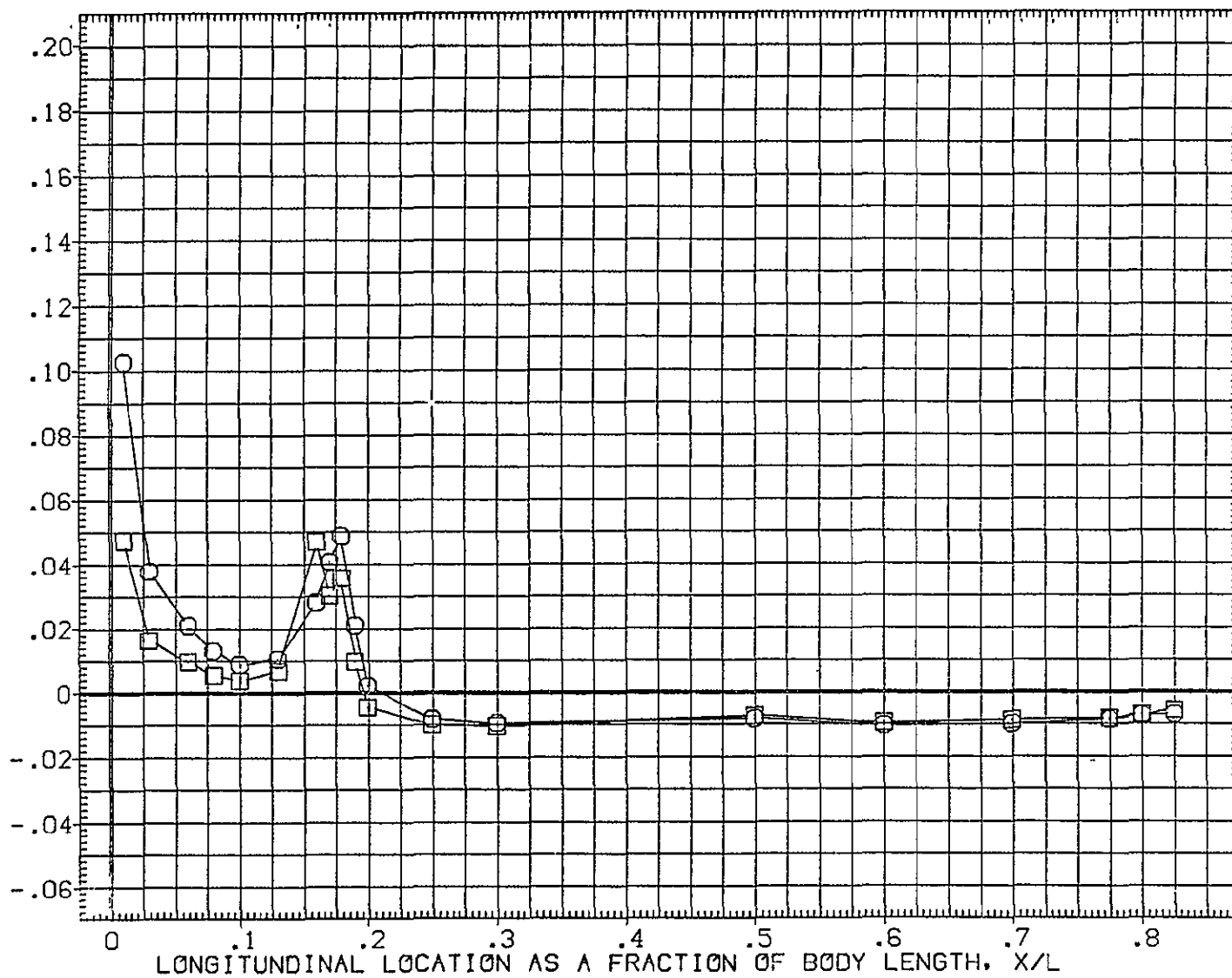


FIG. 7 TOP CENTERLINE

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

SYMBOL	ALPHA	BL	MACH
○	19.744	.000	10.290
□	29.725		
◇	39.932		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

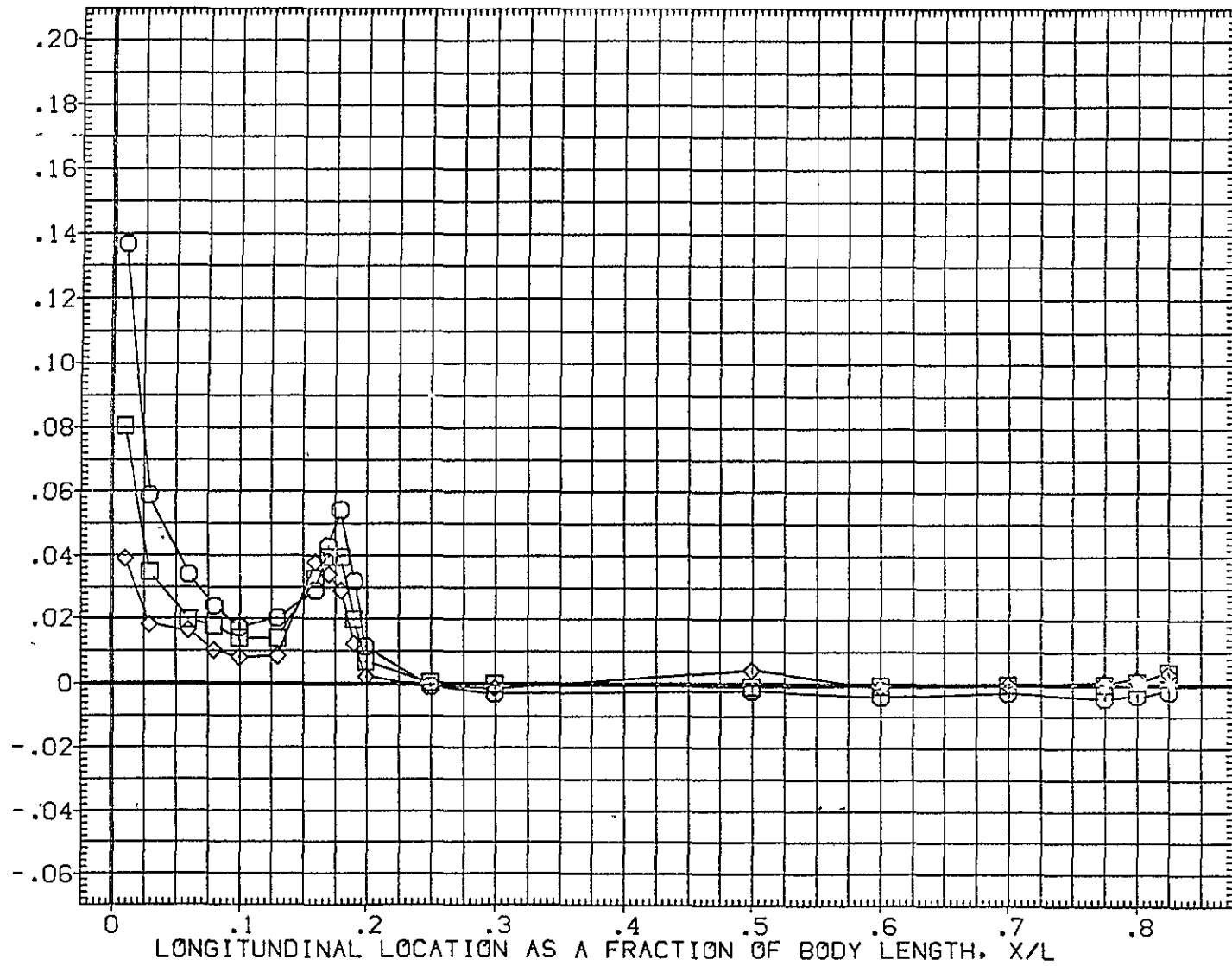


FIG. 7 TOP CENTERLINE

ARC 3.5-198 0H38 140C 0RB TOP CENTER LINE

(BEZB20)

SYMBOL	ALPHA	BL	MACH
○	24.851	.000	10.290
□	34.881		
◇	44.136		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

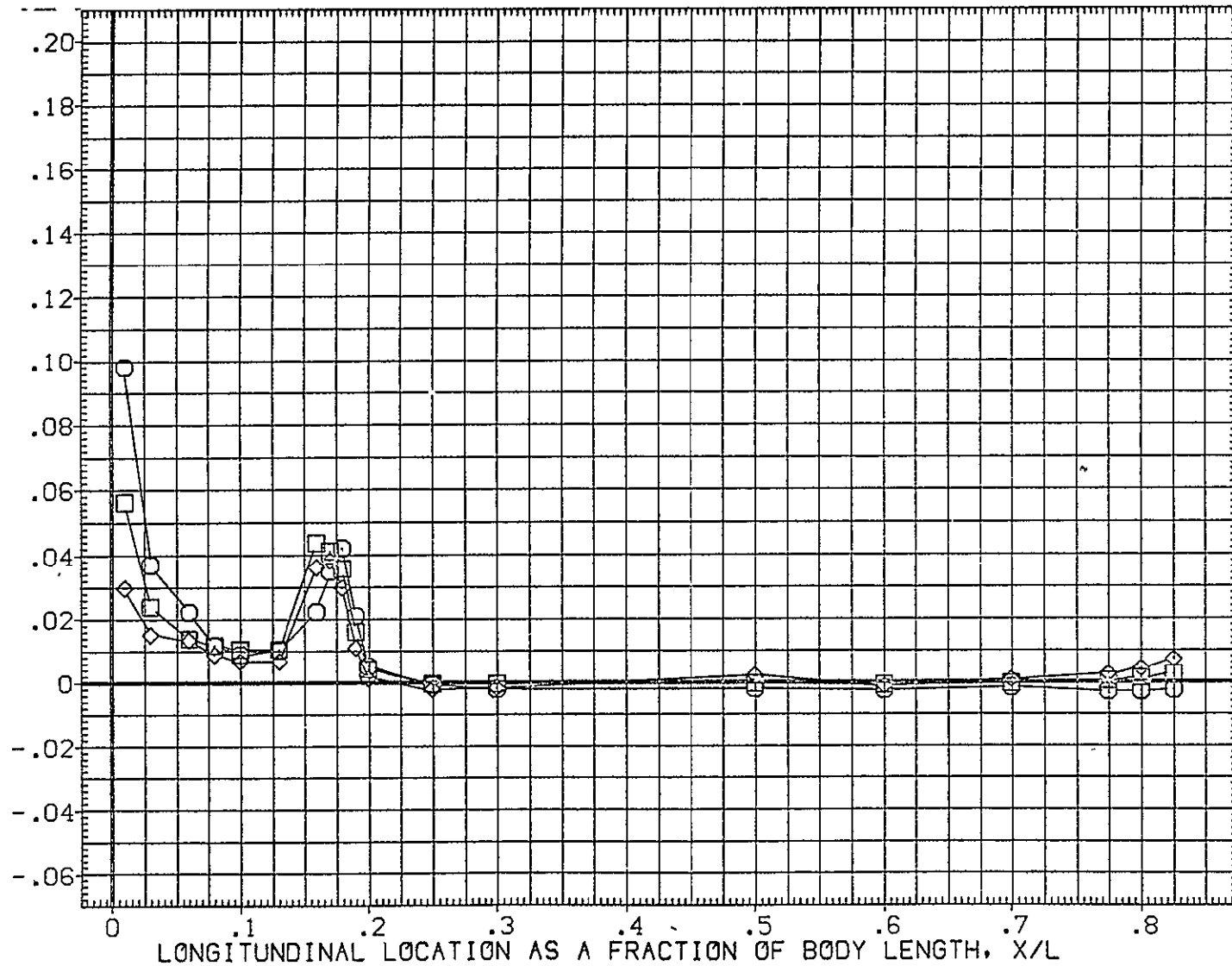


FIG. 7 TOP CENTERLINE

SYMBOL

○  
□  
◇  
▷  
▽  
▷  
▷

ALPHA

19.261  
24.886  
29.509  
34.843  
39.947  
44.132

2Y/B

.300

MACH

7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BOFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

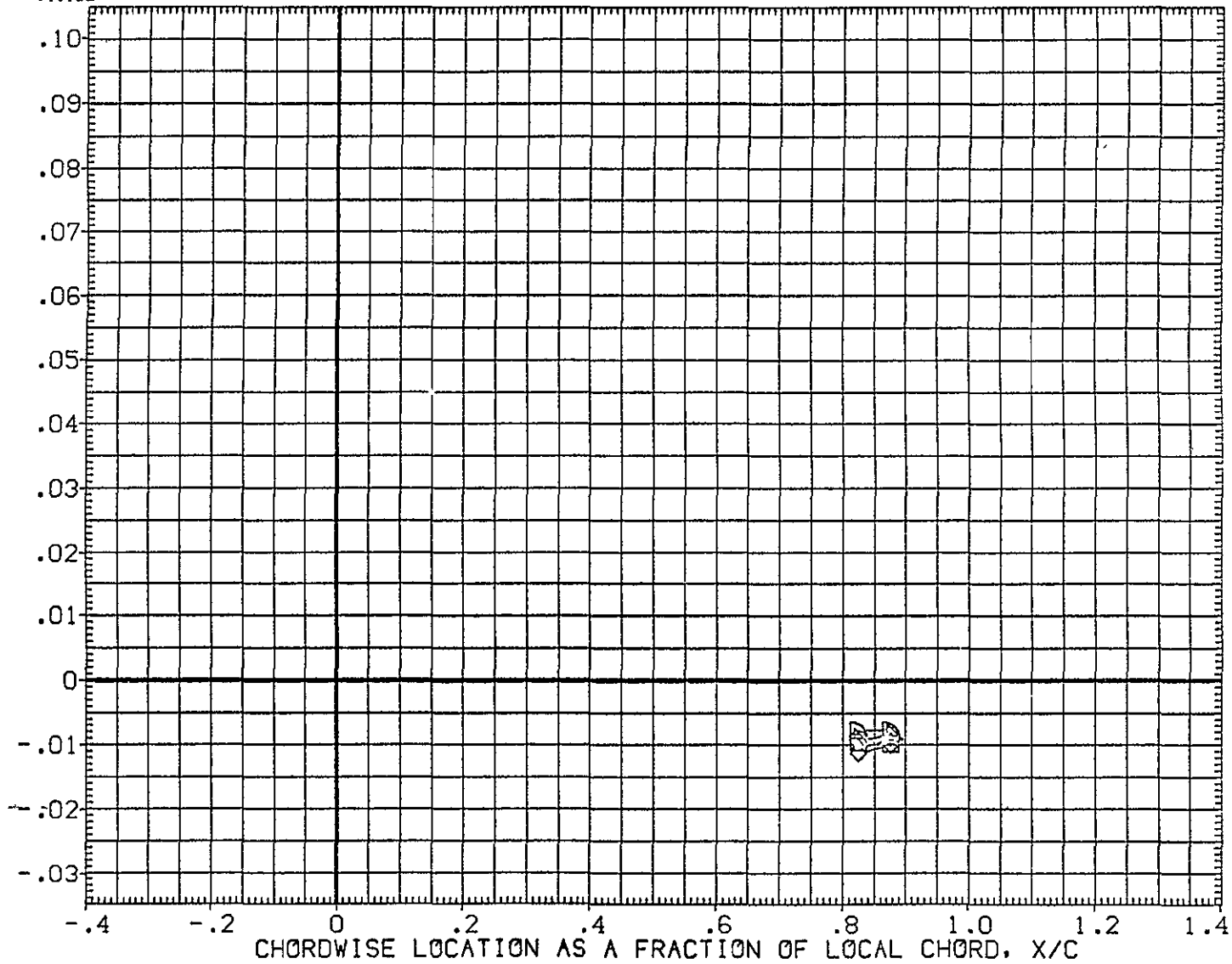


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH01)

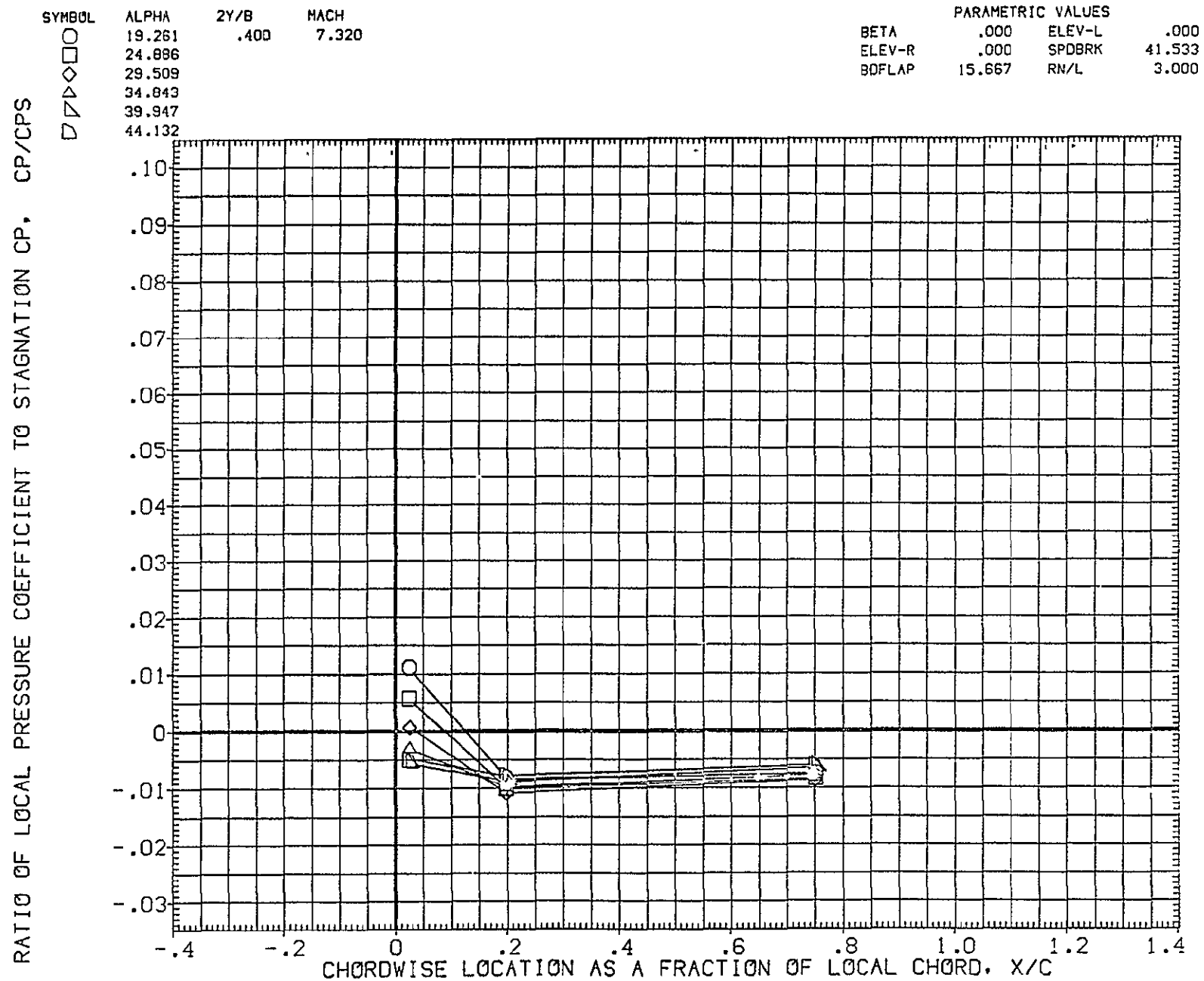


FIG. 8 WING UPPER SURFACE (RT)

ALPHA	2Y/B	MACH
19.261	.600	7.320
24.886		
29.509		
34.843		
39.947		
44.132		

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPOBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF, LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

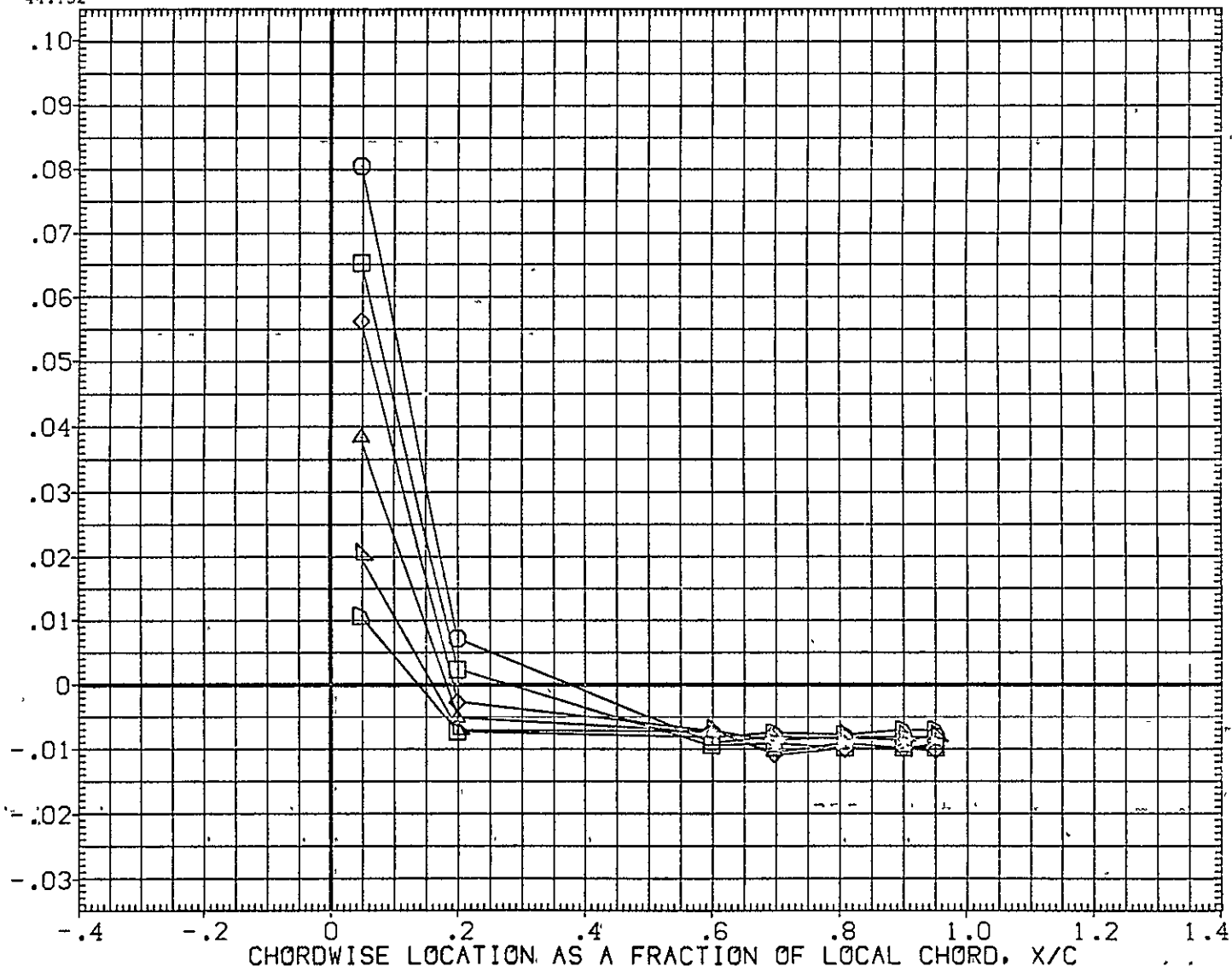


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH01)

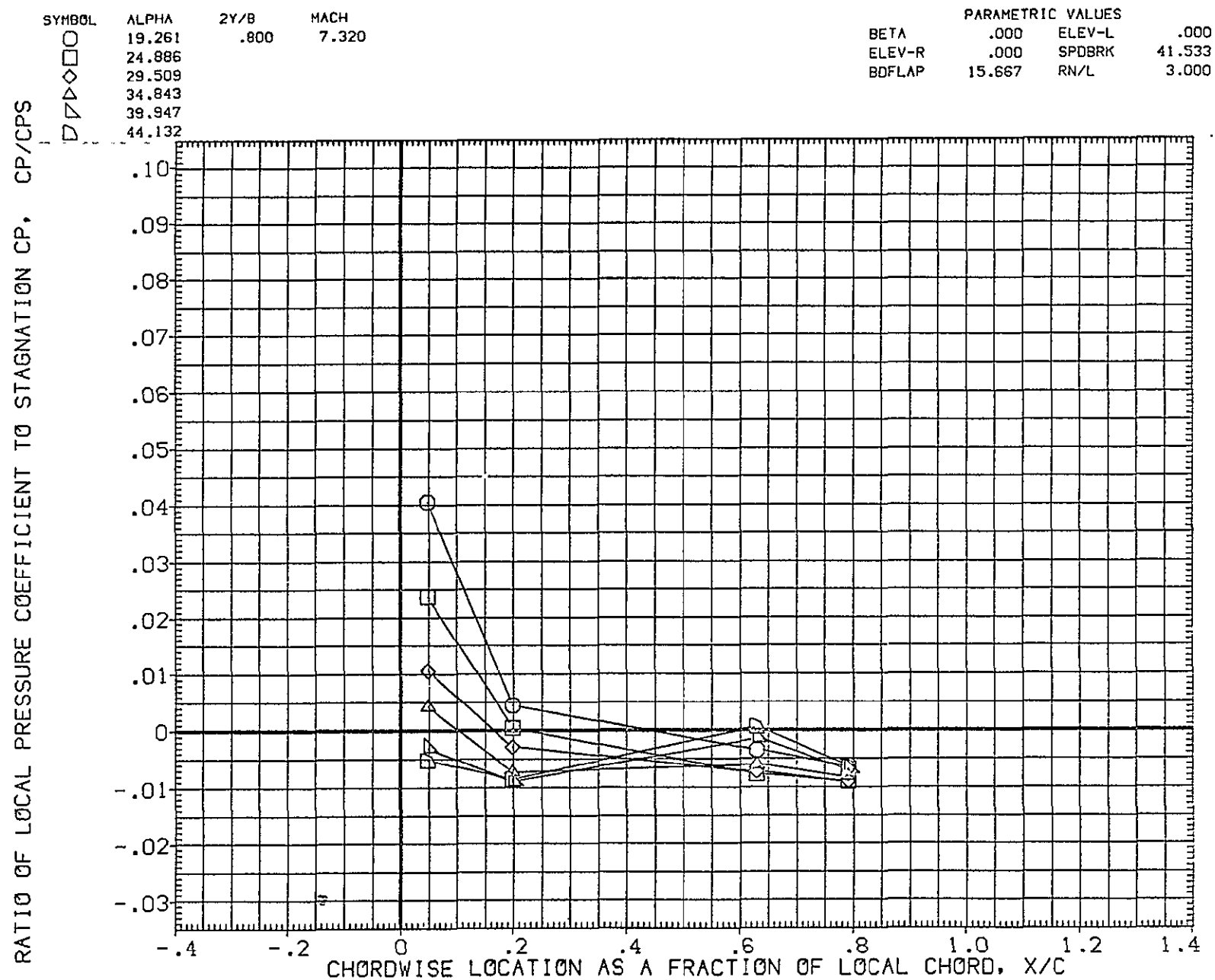


FIG. 8 WING UPPER SURFACE (RT)

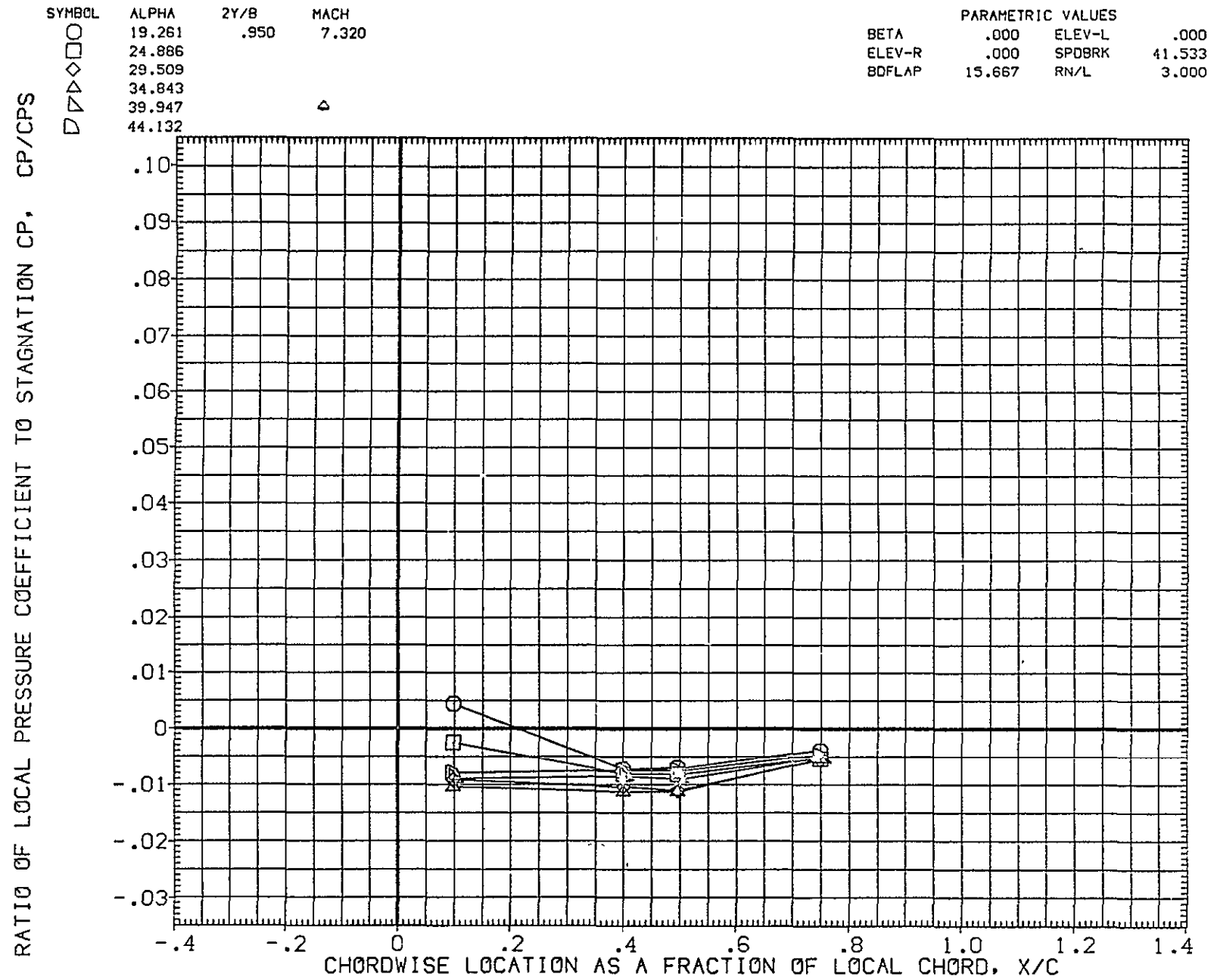


FIG. 8 WING UPPER SURFACE (RT)



# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH03)

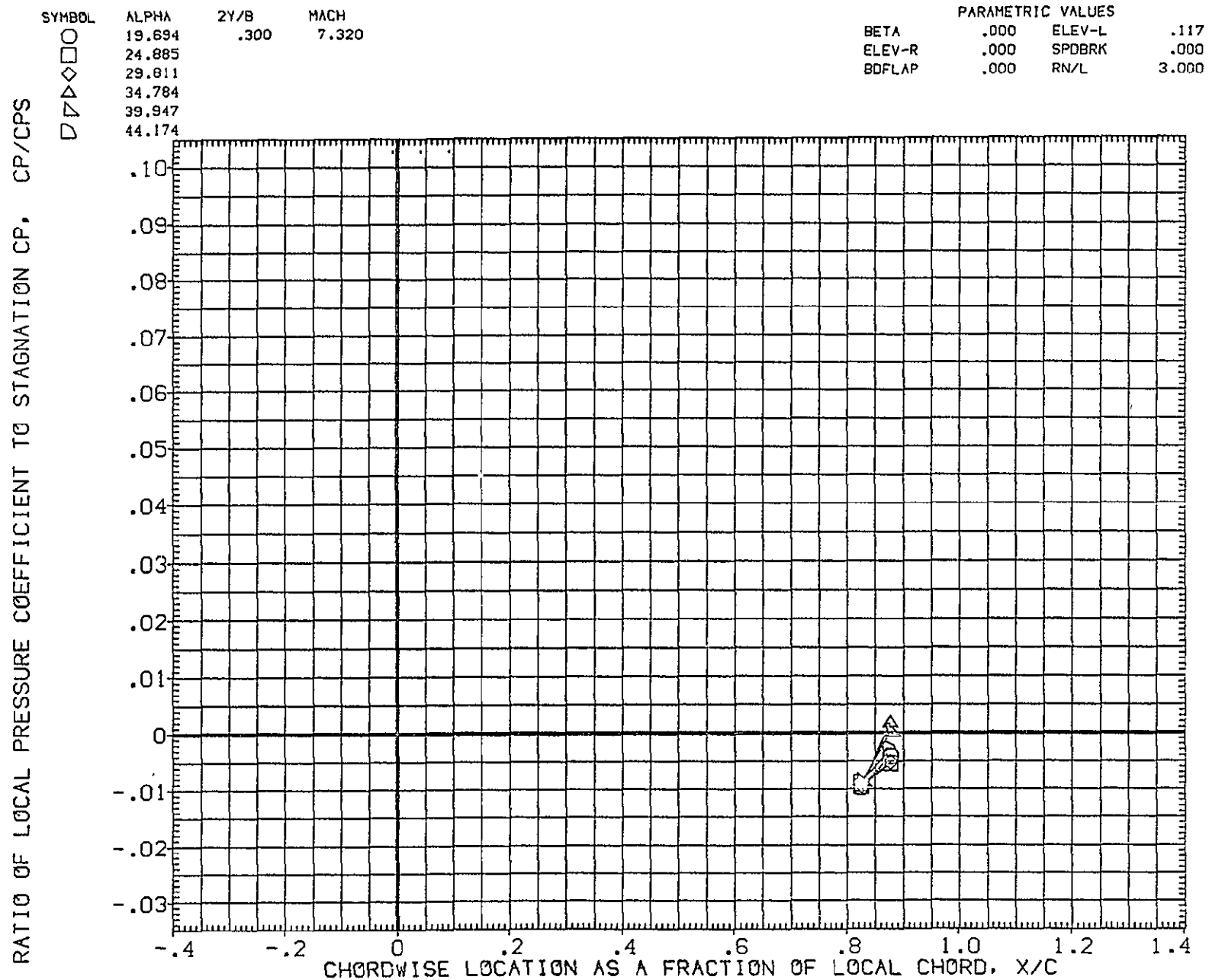


FIG. 8 WING UPPER SURFACE (RT)

SYMBOL	ALPHA	2Y/B	MACH
○	48.803	.300	7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

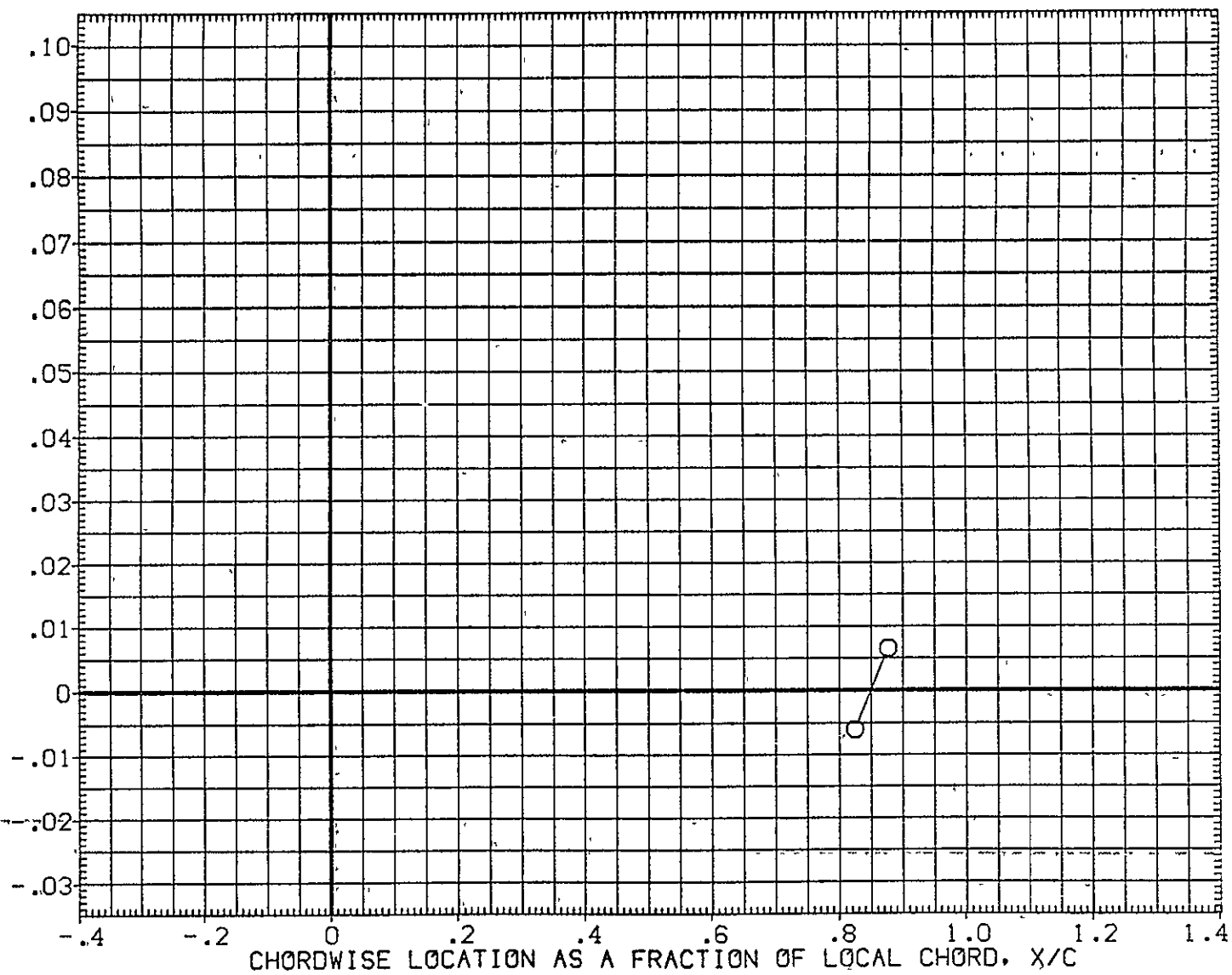


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH03)

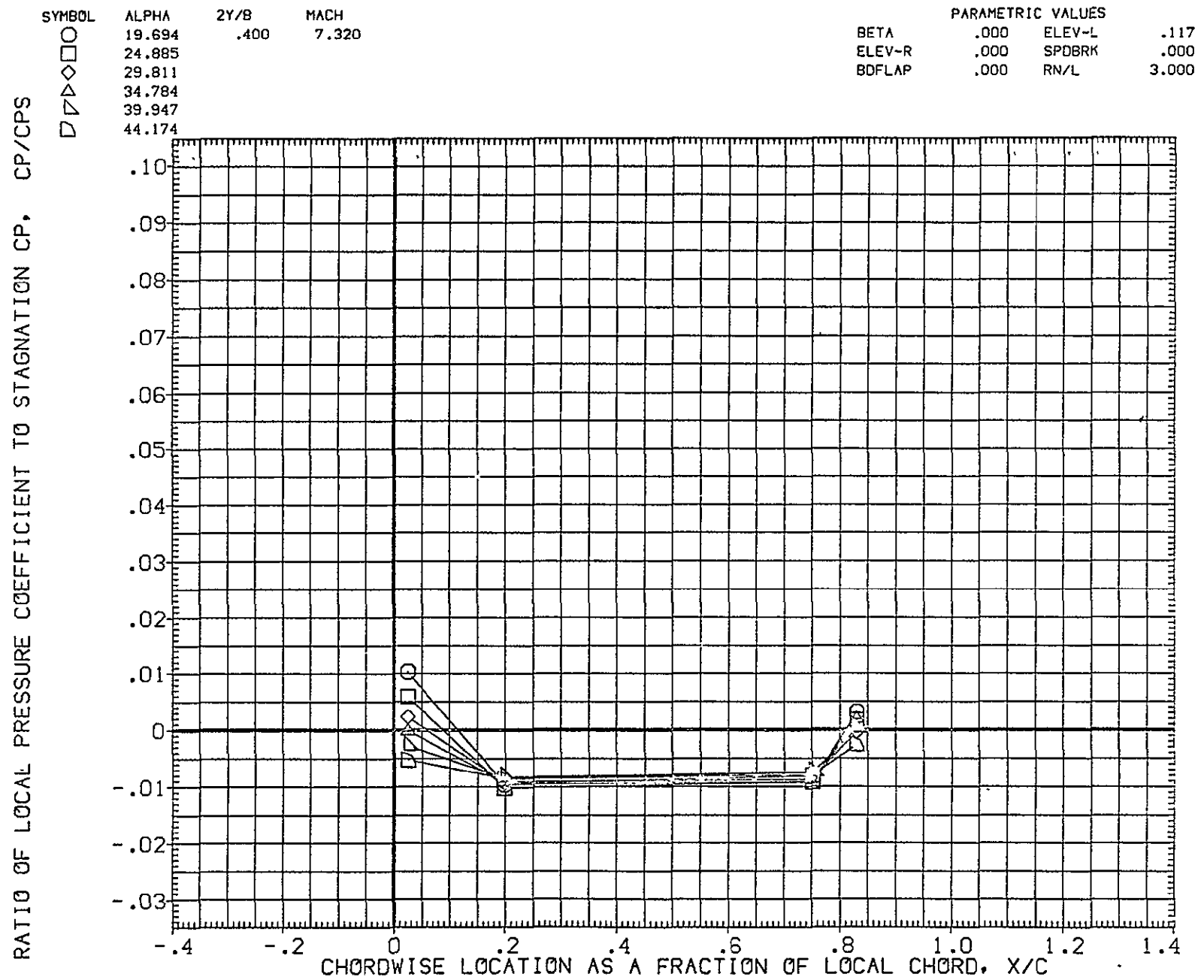


FIG. 8 WING UPPER SURFACE (RT)

SYMBOL	ALPHA	2Y/B	MACH
○	48.803	.400	7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

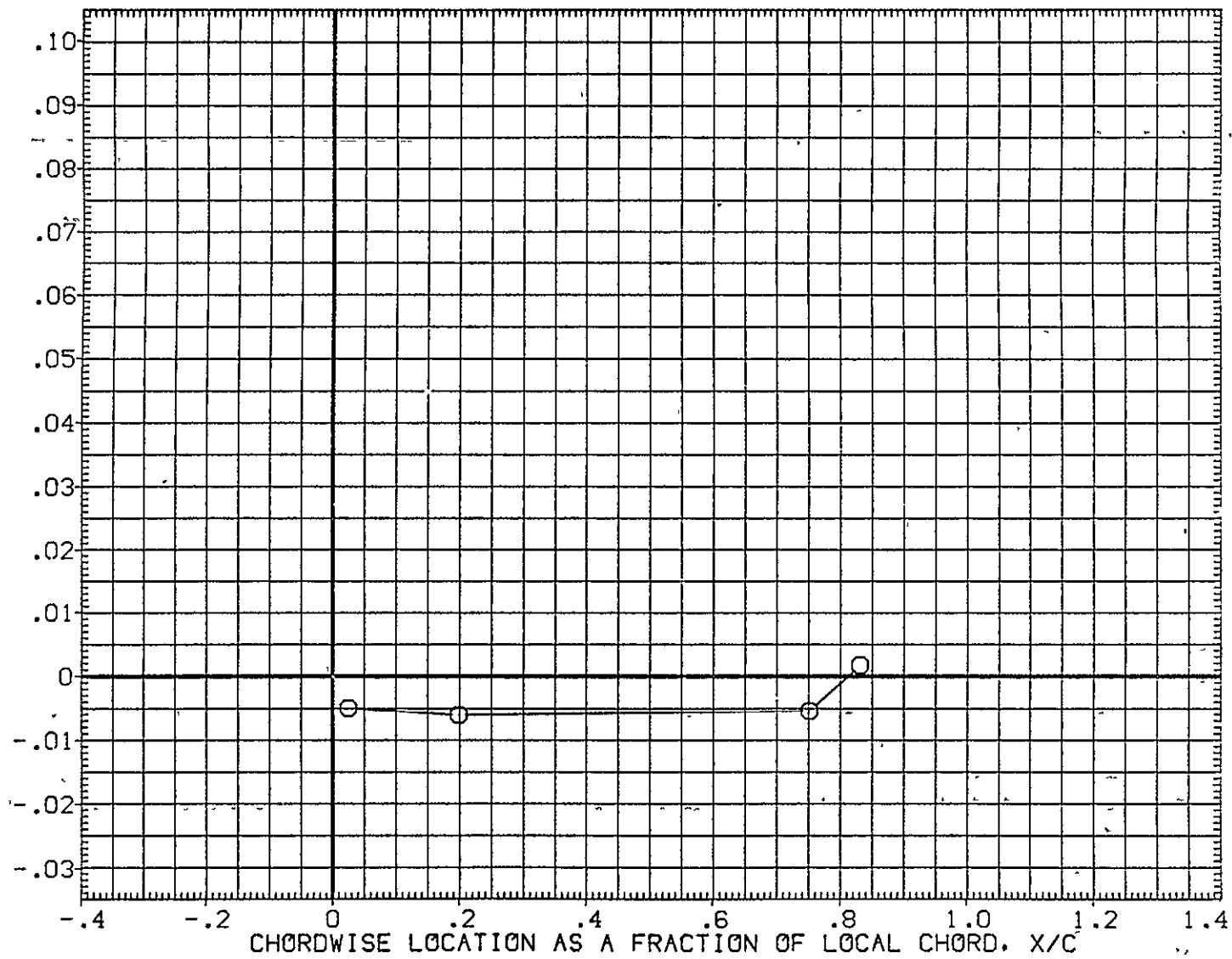


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH03)

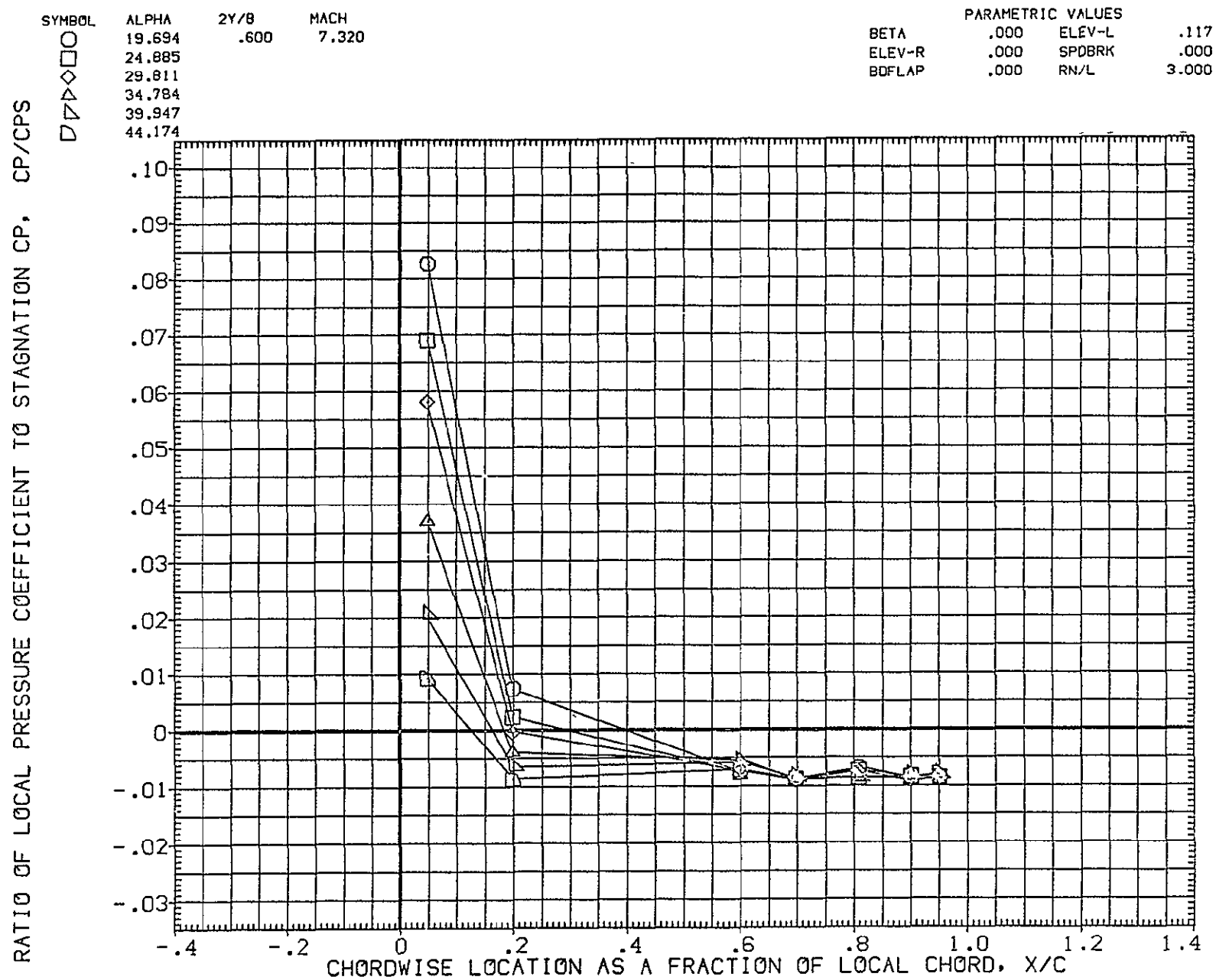


FIG. 8 WING UPPER SURFACE (RT)

SYMBOL	ALPHA	2Y/B	MACH
○	48.803	.600	7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

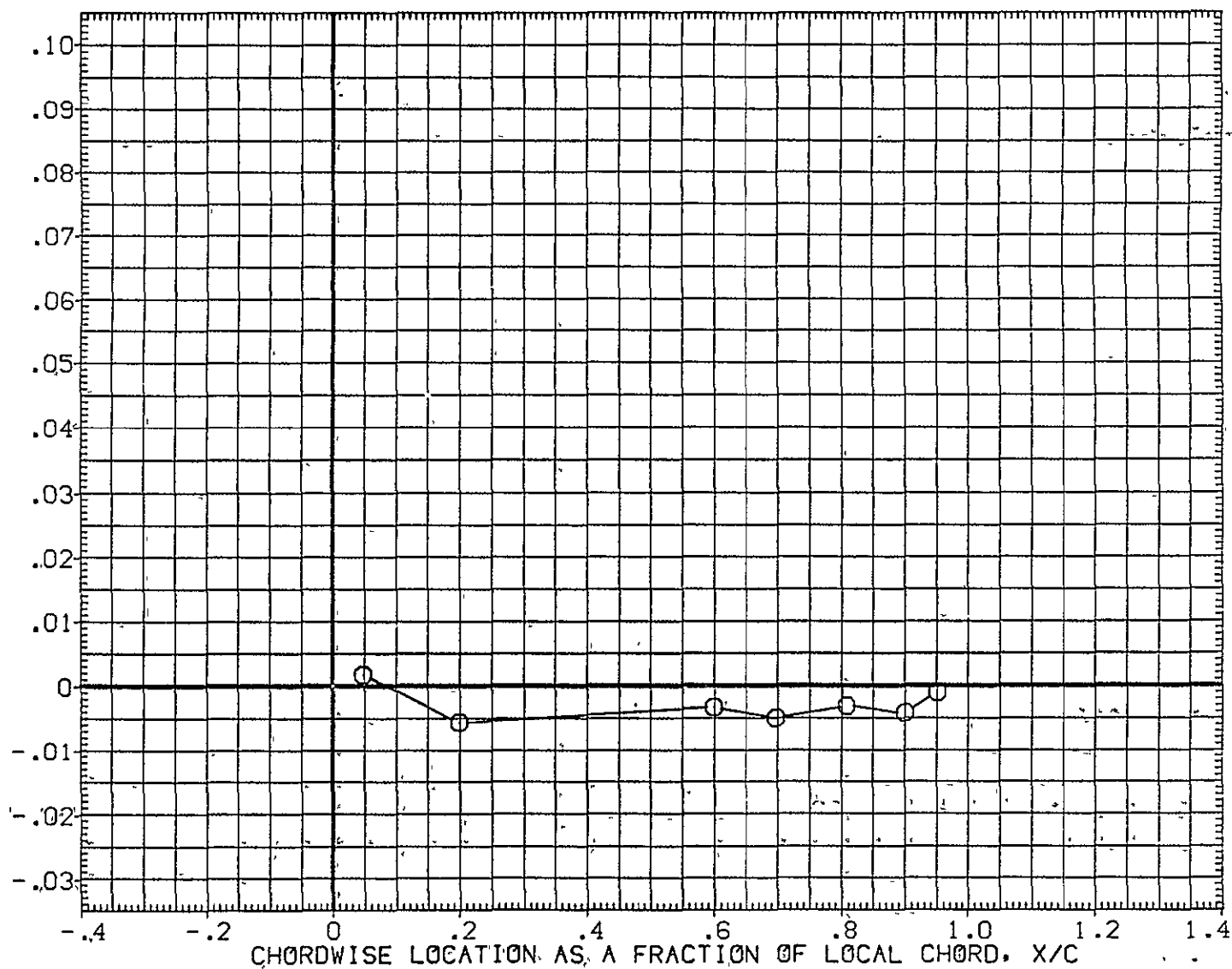


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH03)

SYMBOL  
 ○  
 □  
 ◇  
 ▲  
 ▼  
 ▽

ALPHA  
 19.694  
 24.885  
 29.811  
 34.784  
 39.947  
 44.174

2Y/B  
 .800

MACH  
 7.320

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

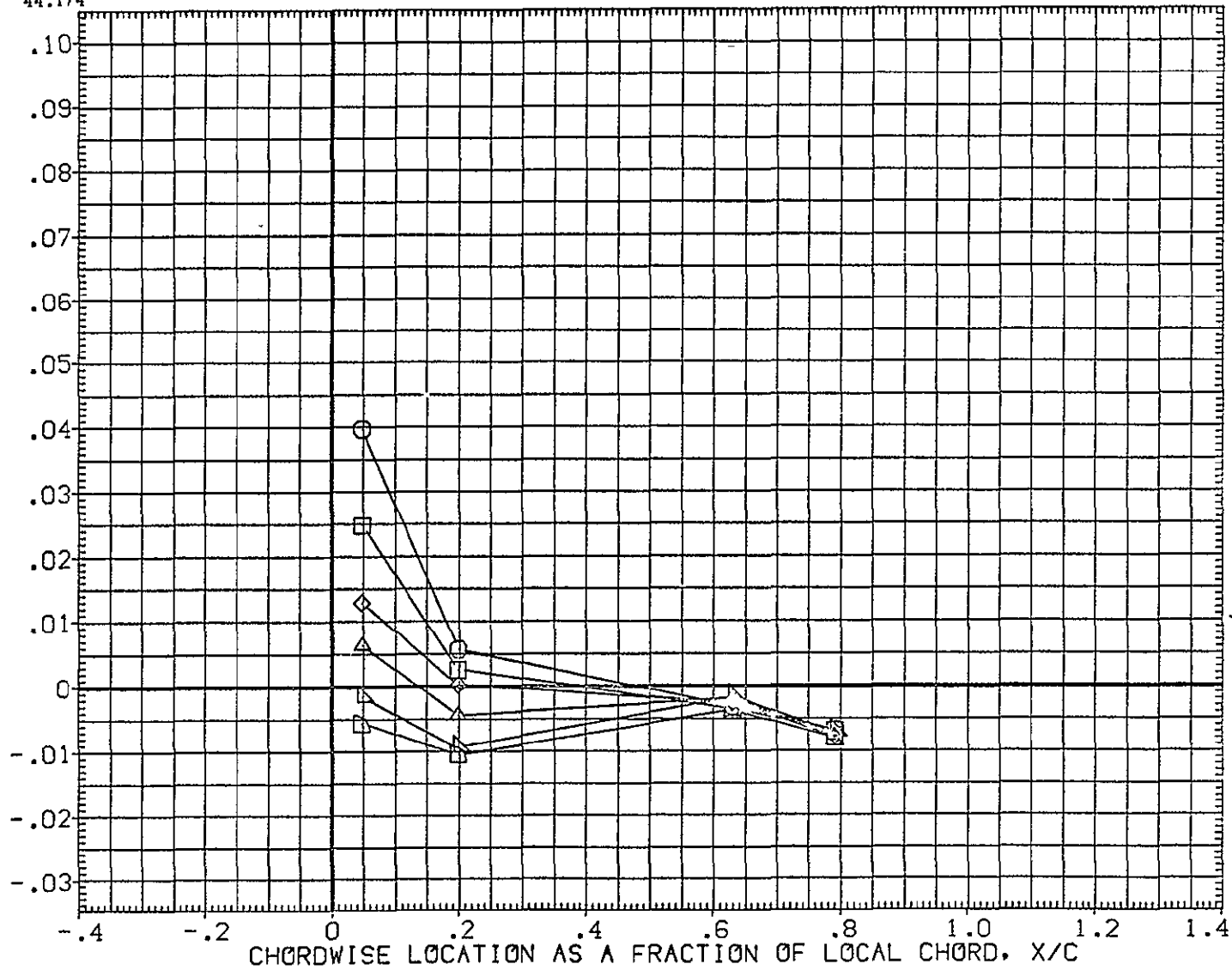


FIG. 8 WING UPPER SURFACE (RT)

SYMBOL    ALPHA    2Y/B    MACH  
○        48.803    .800    7.320

PARAMETRIC VALUES  
BETA        .000    ELEV-L        .117  
ELEV-R       .000    SPDBRK       .000  
BDFLAP       .000    RN/L        3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

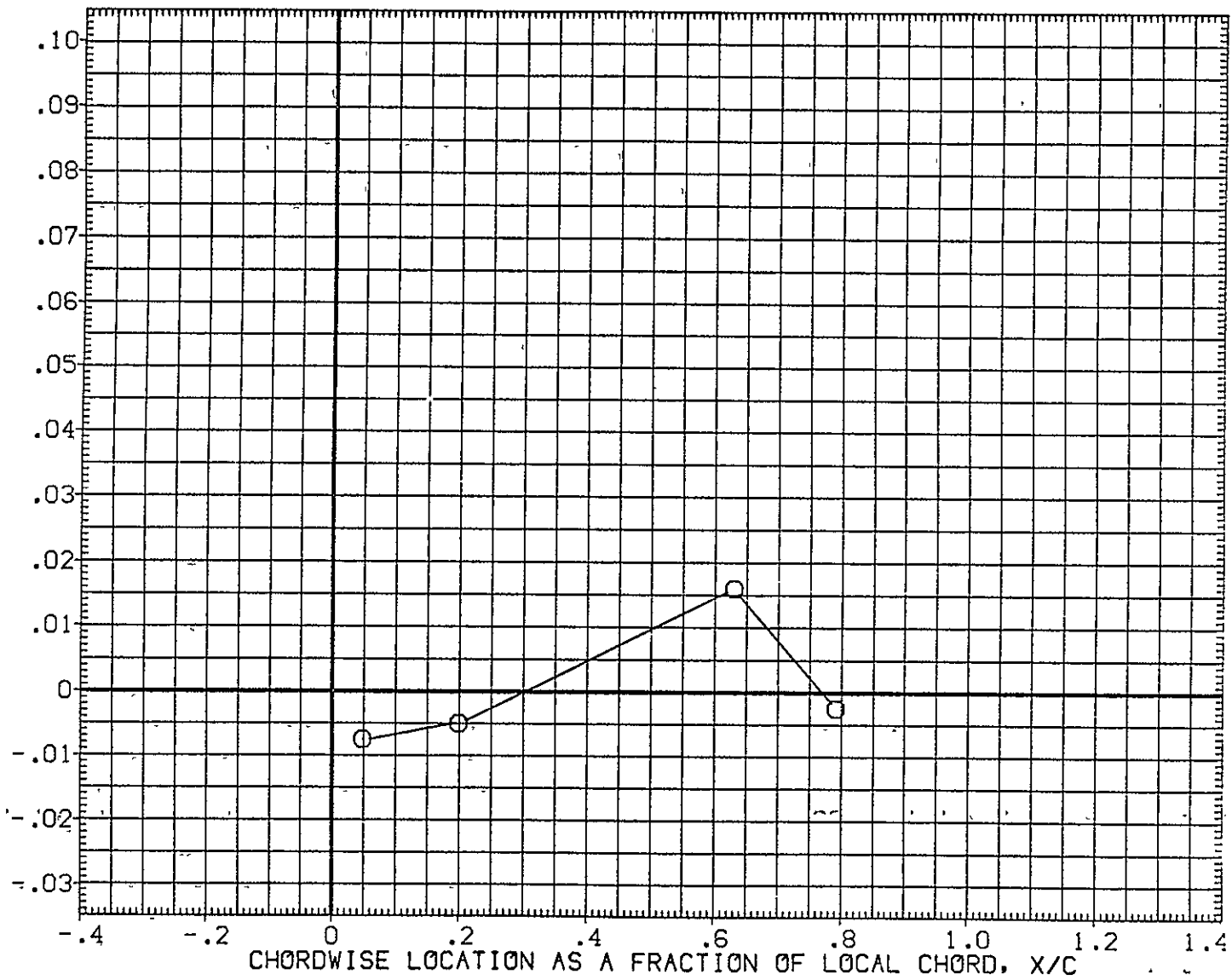


FIG. 8 WING UPPER SURFACE (RT)



# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH03)

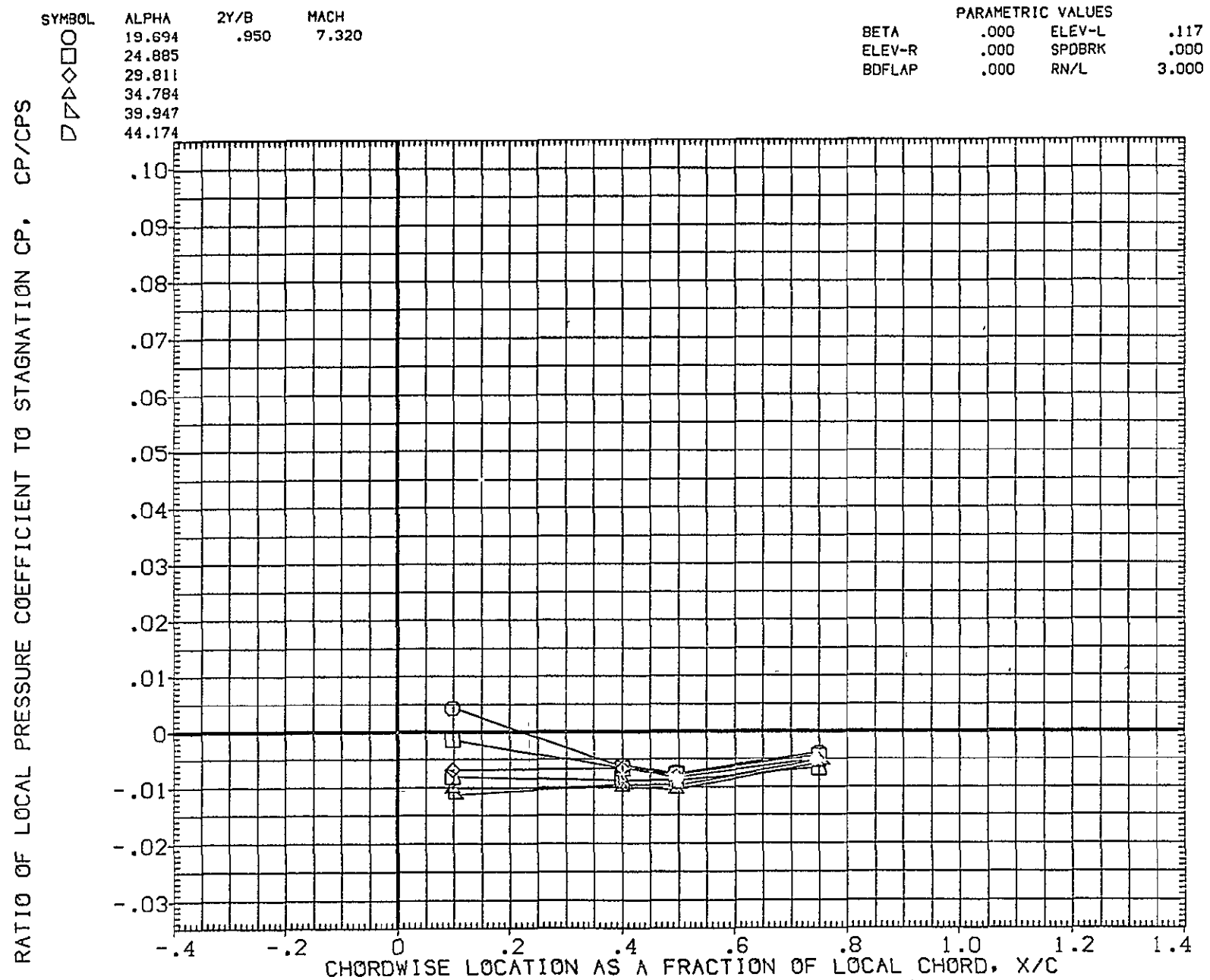


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH03)

SYMBOL    ALPHA    2Y/B    MACH  
 O        48.803    .950    7.320

PARAMETRIC VALUES  
 BETA        .000    ELEV-L        .117  
 ELEV-R        .000    SPOBRK        .000  
 BOFLAP        .000    RN/L         3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

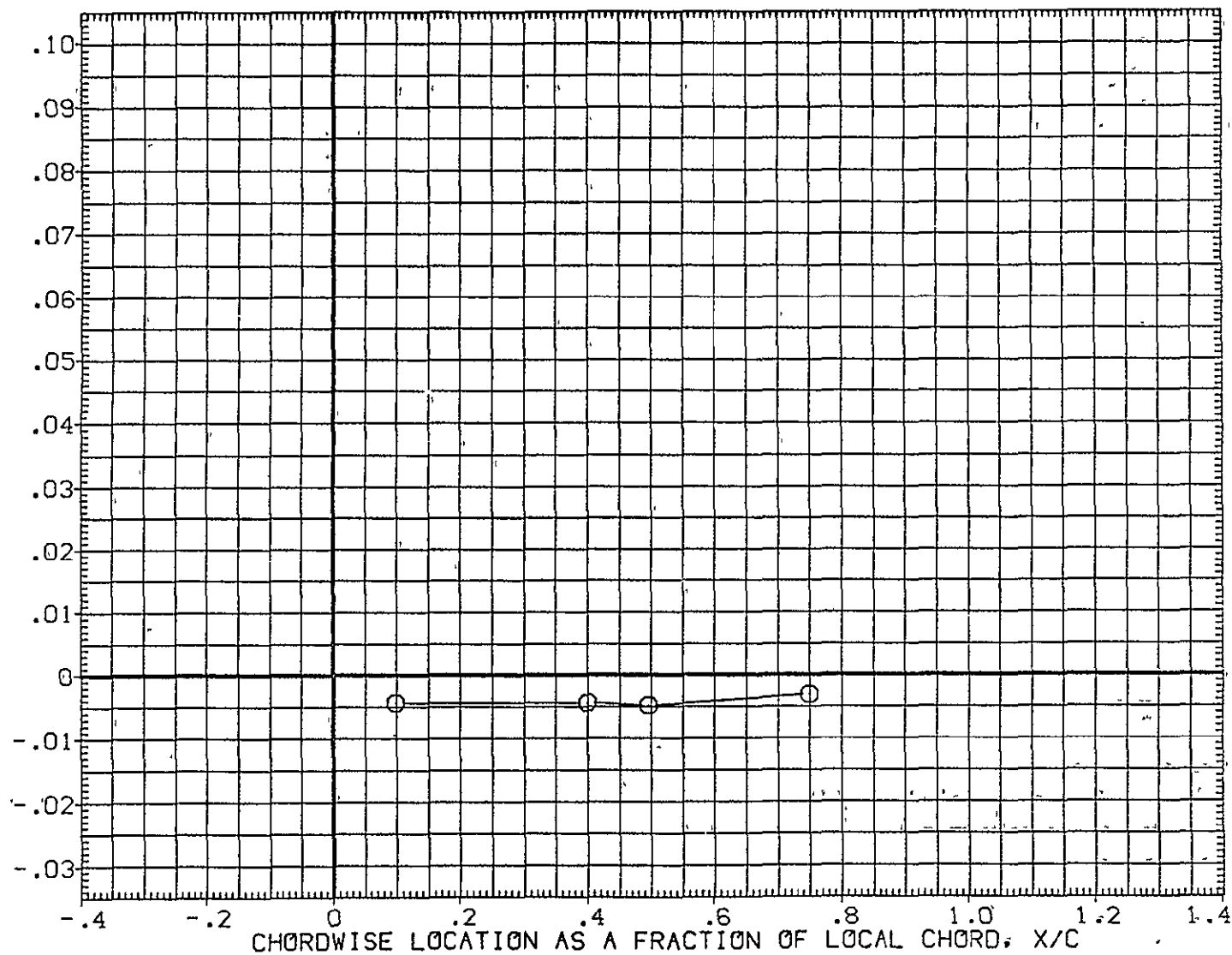


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZHO4)

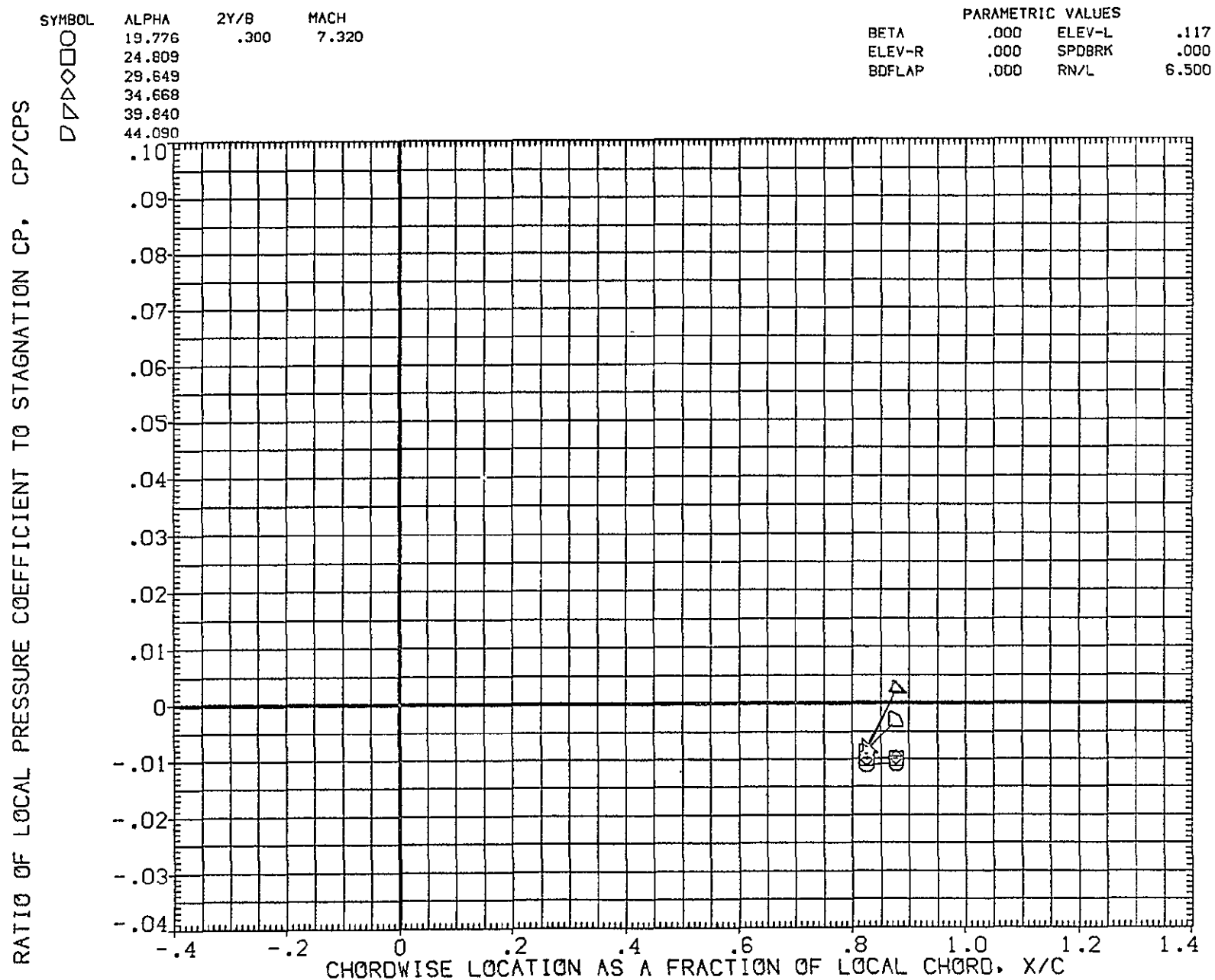


FIG. 8 WING UPPER SURFACE (RT)

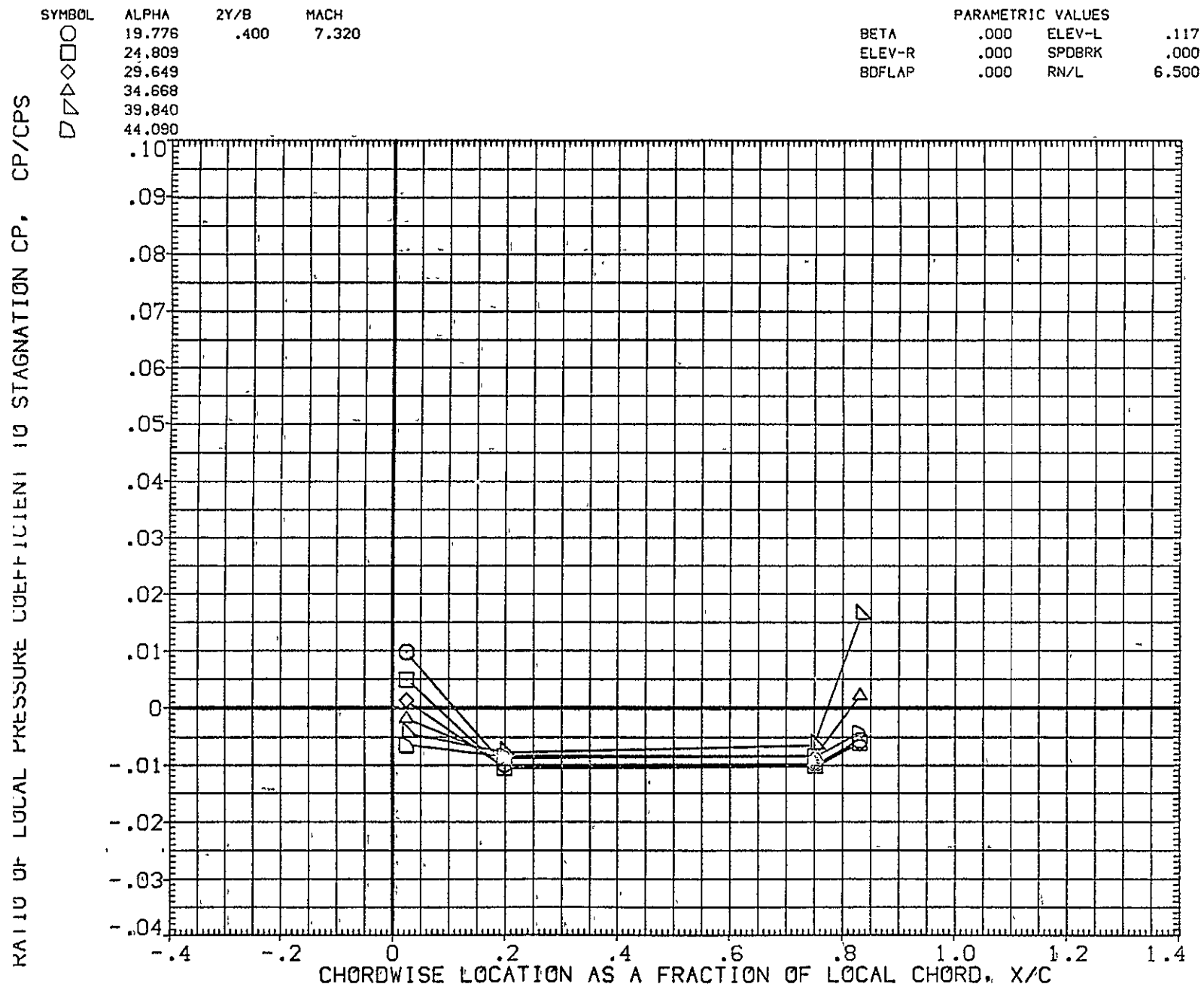


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH04)

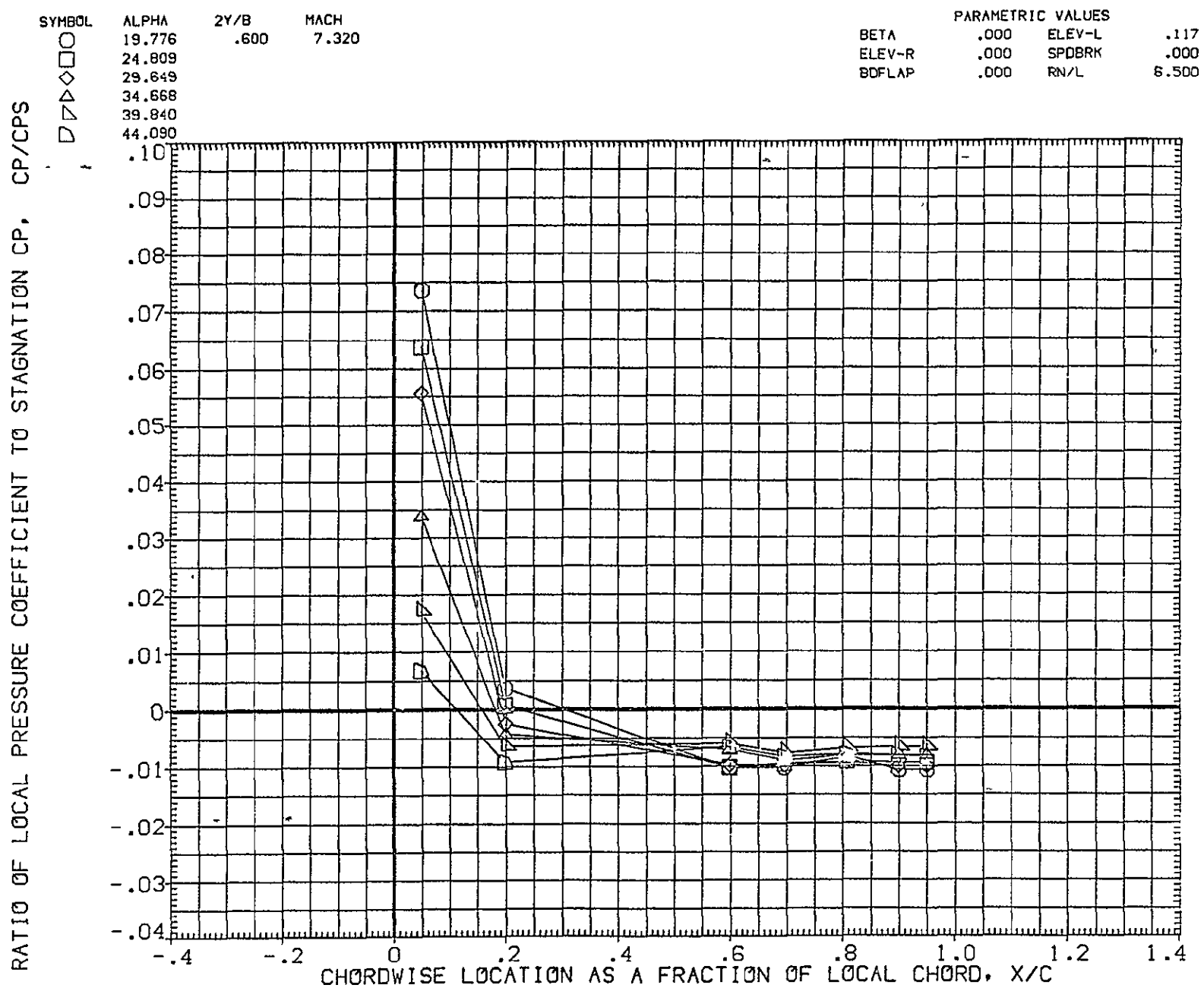


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH04)

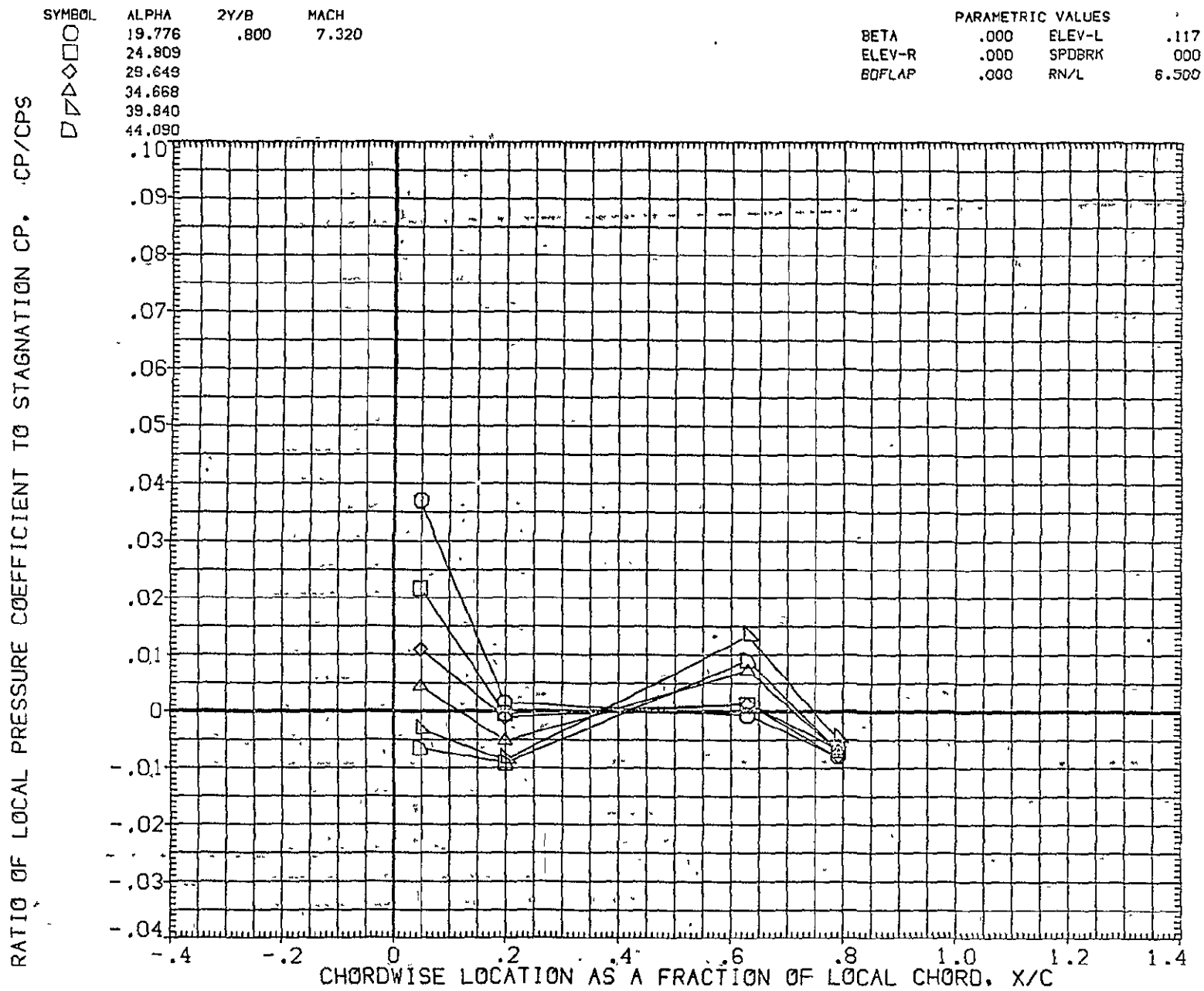


FIG. 8 "WING" UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH04)

SYMBOL

○ □ ◇ △ ▽ ▿

ALPHA	2Y/B	MACH
19.776	.950	7.320
24.809		
29.649		
34.668		
39.840		
44.090		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

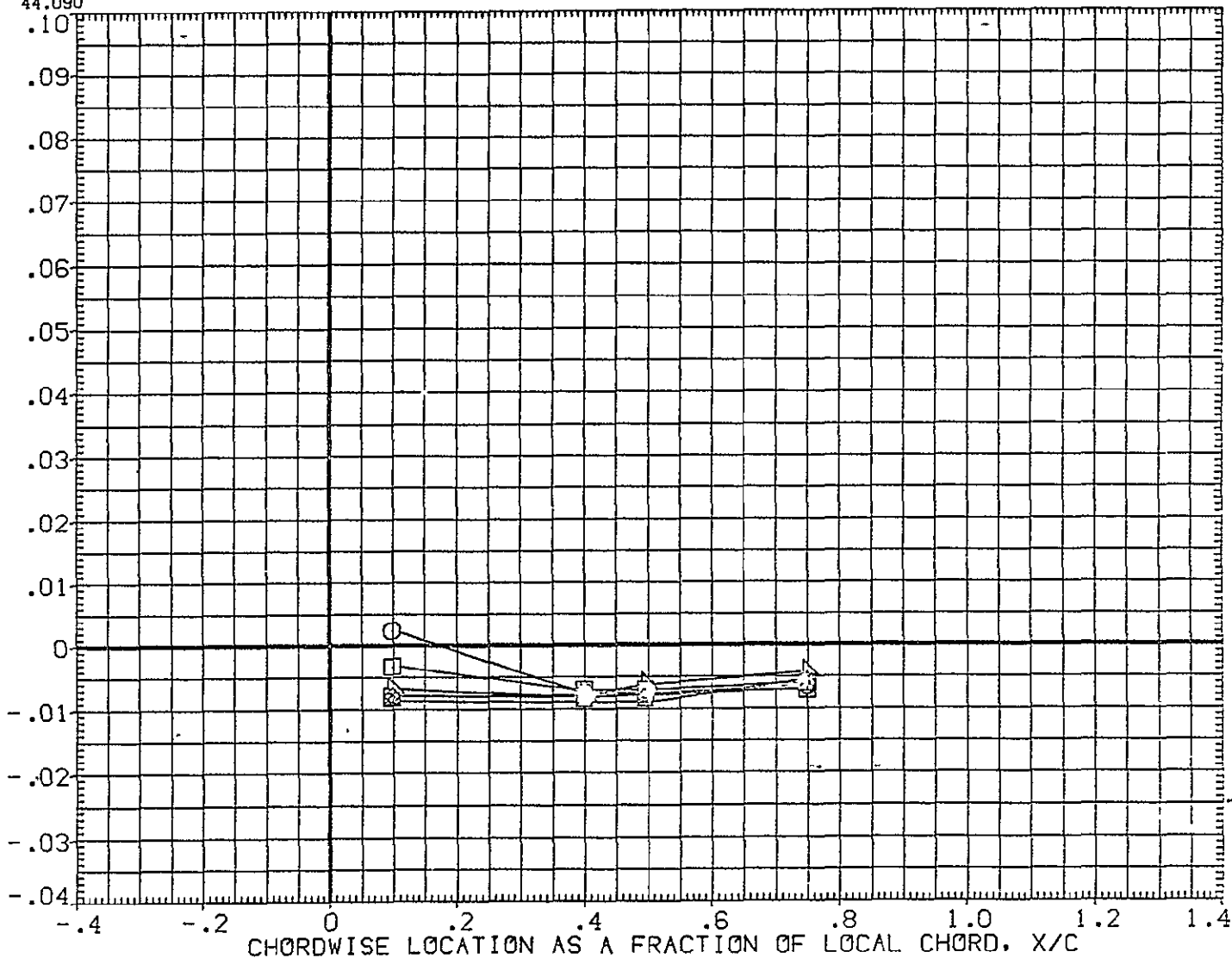


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH05)

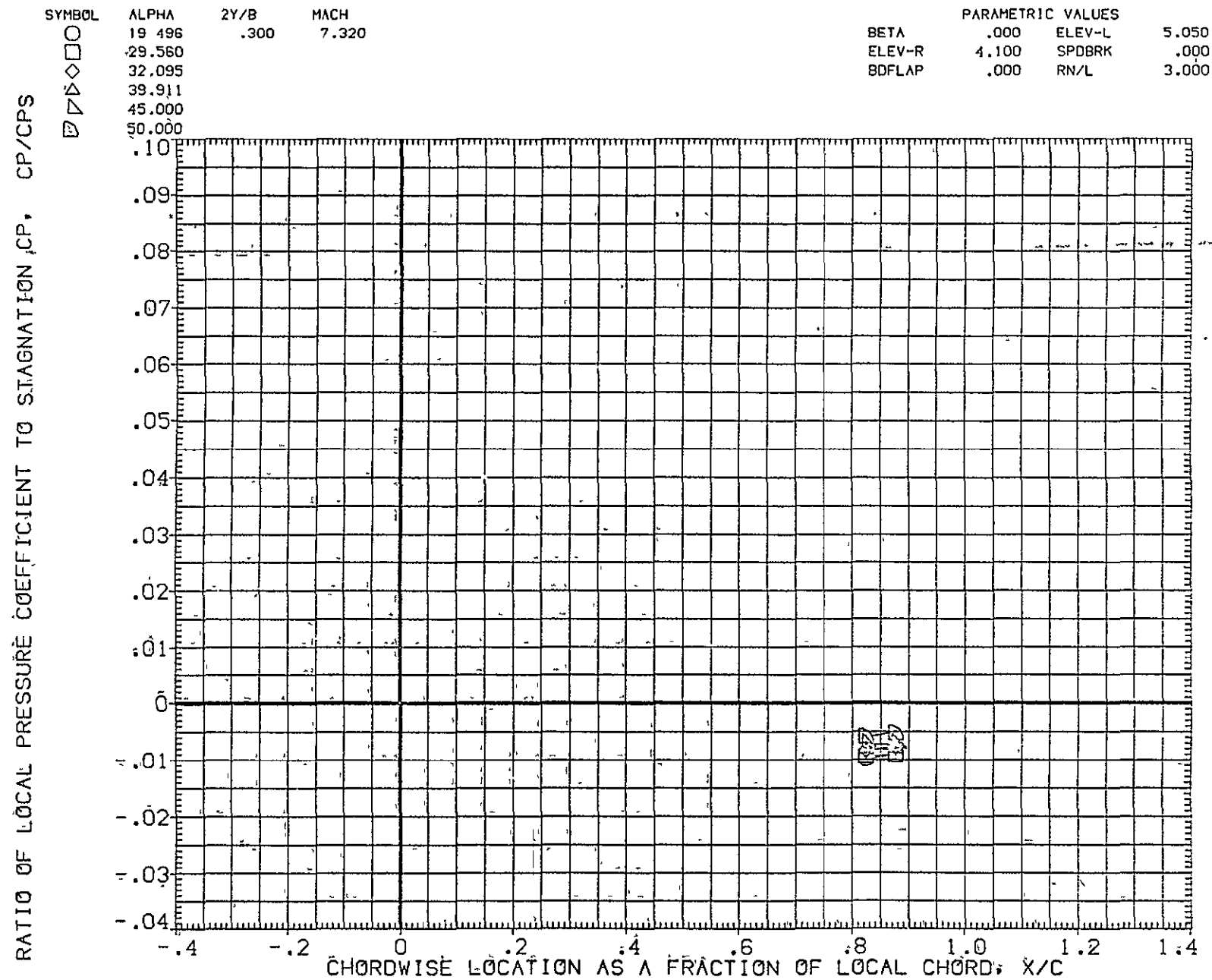


FIG. 8 WING UPPER SURFACE (RT)



# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT) (PEZH05)

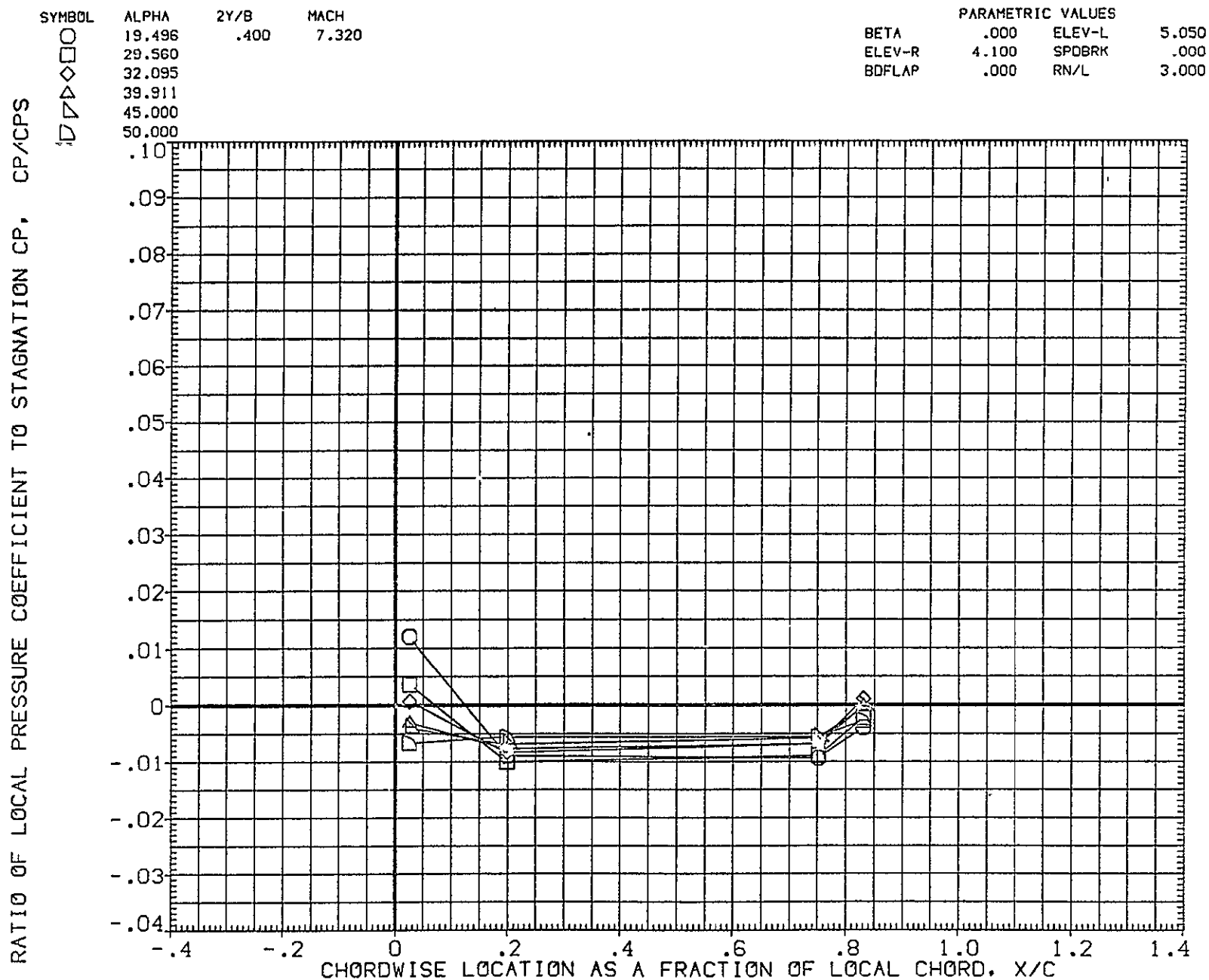


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT) (PEZH05)

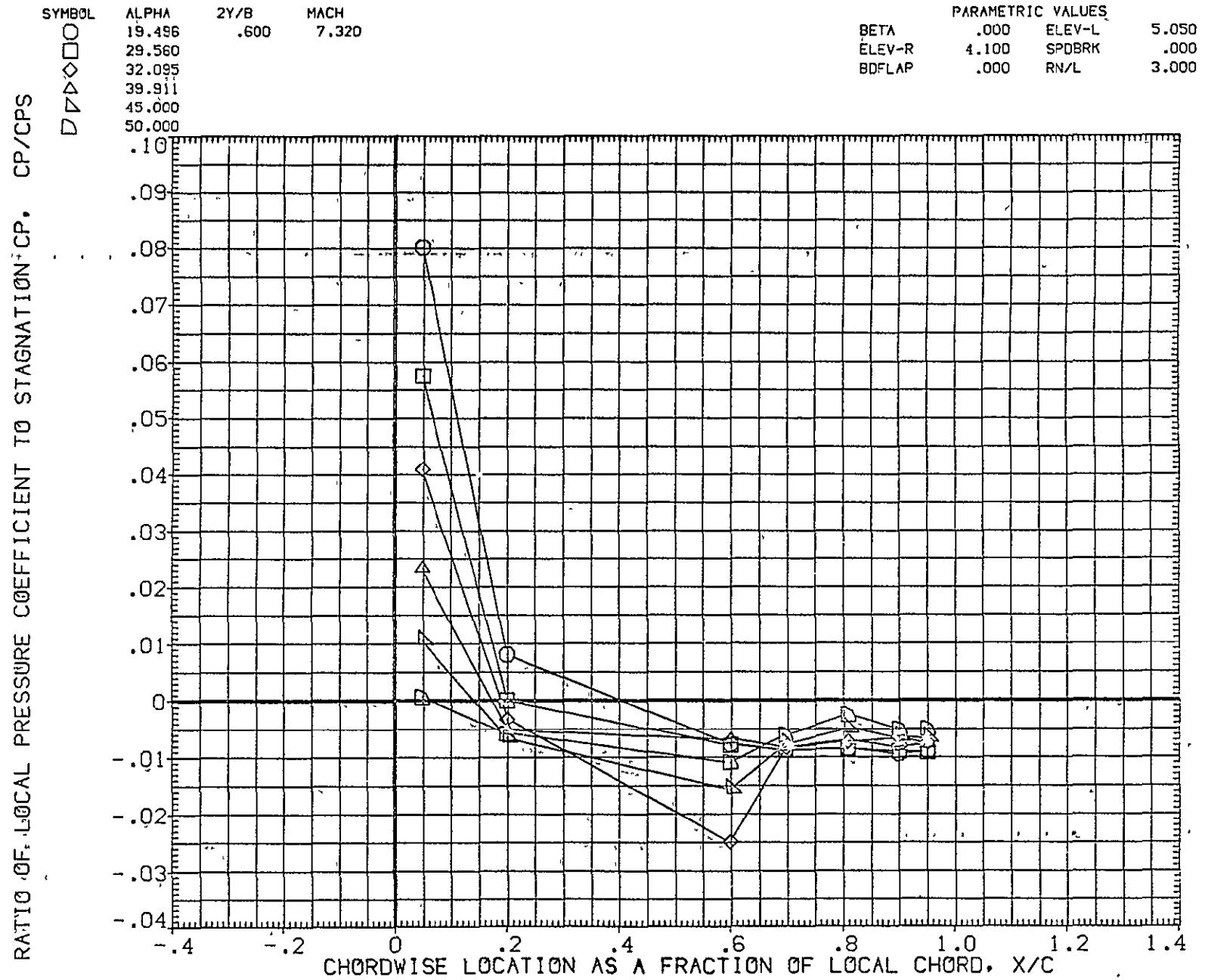


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH05)

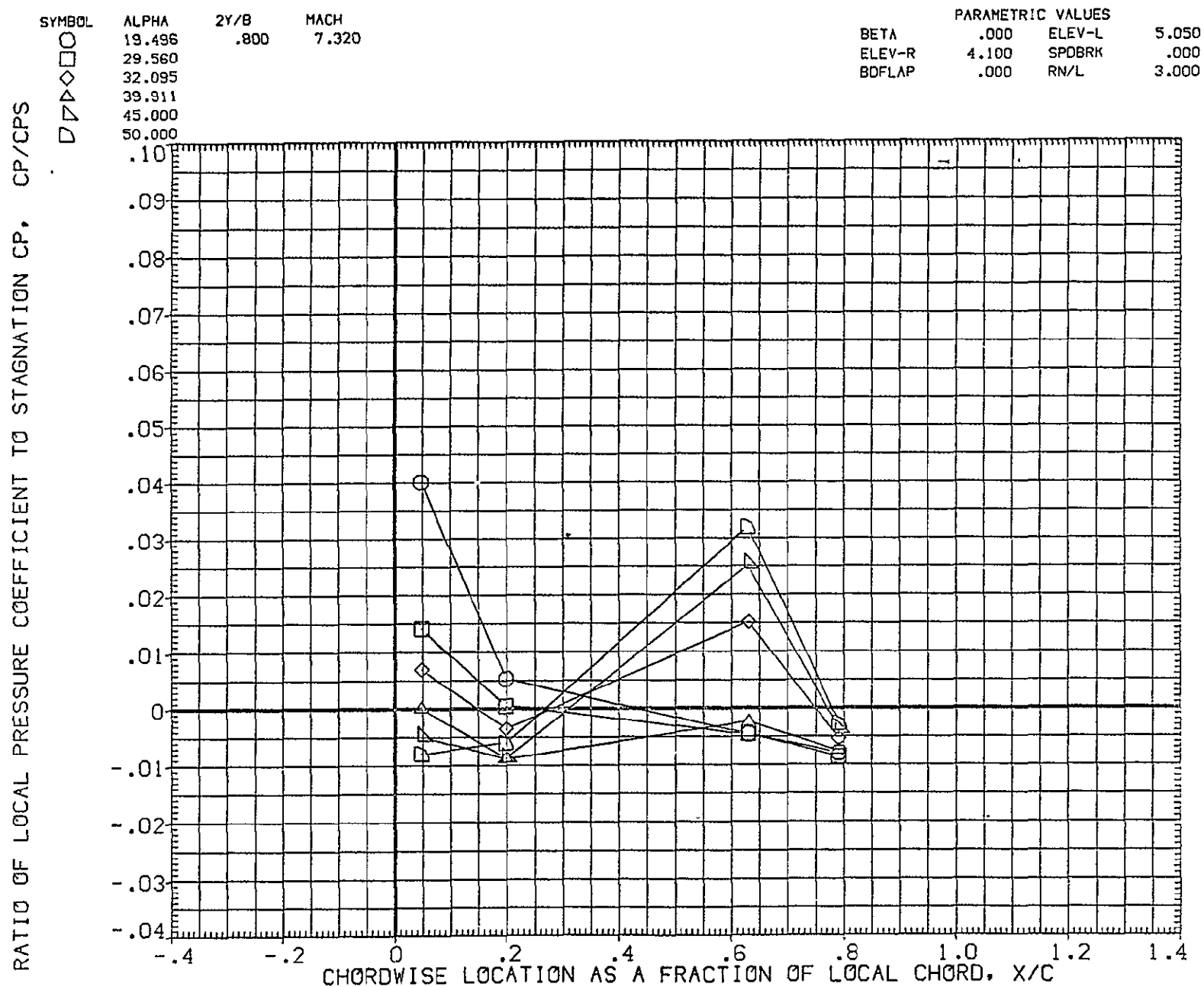


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH05)

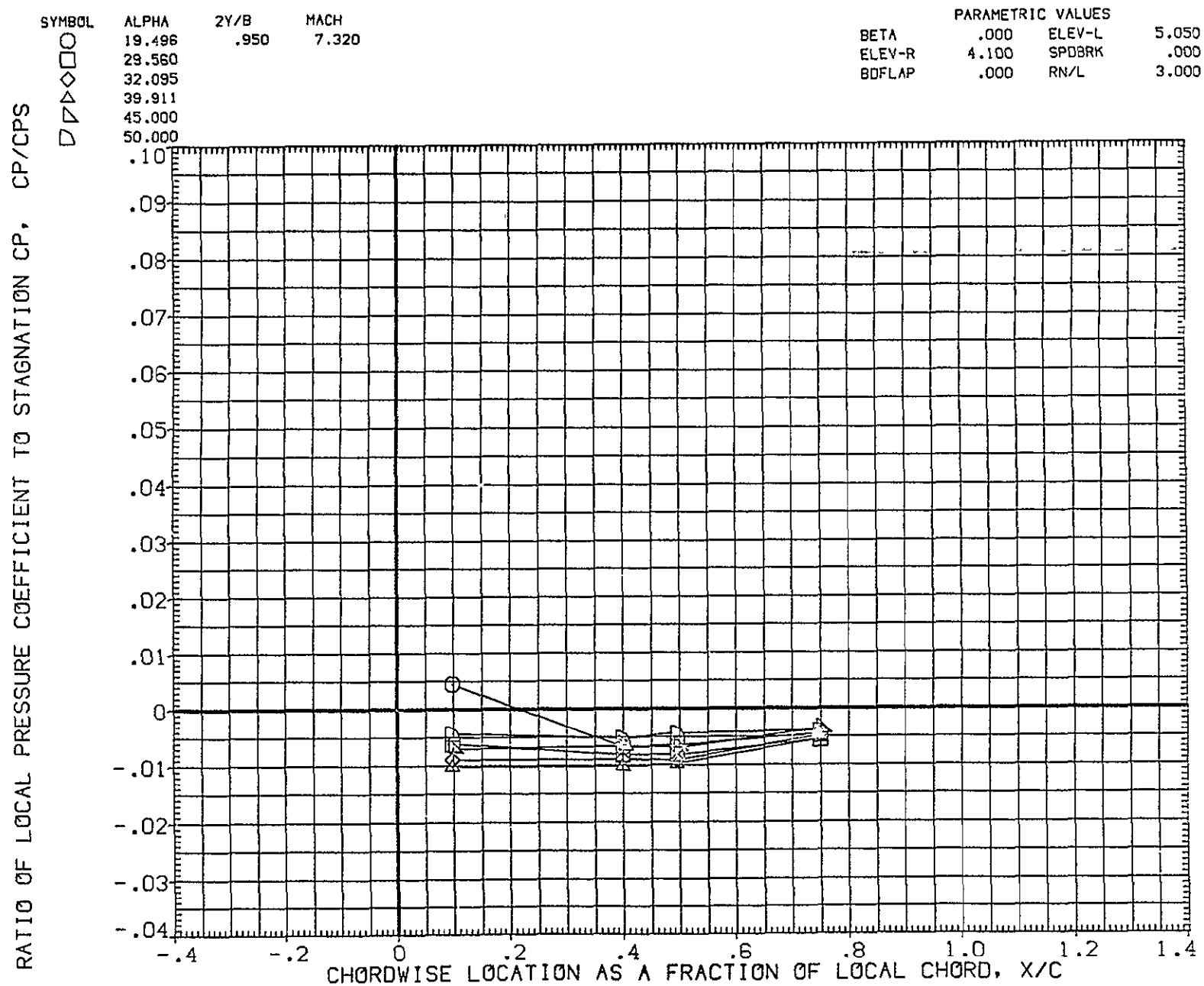


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT) (PEZH07)

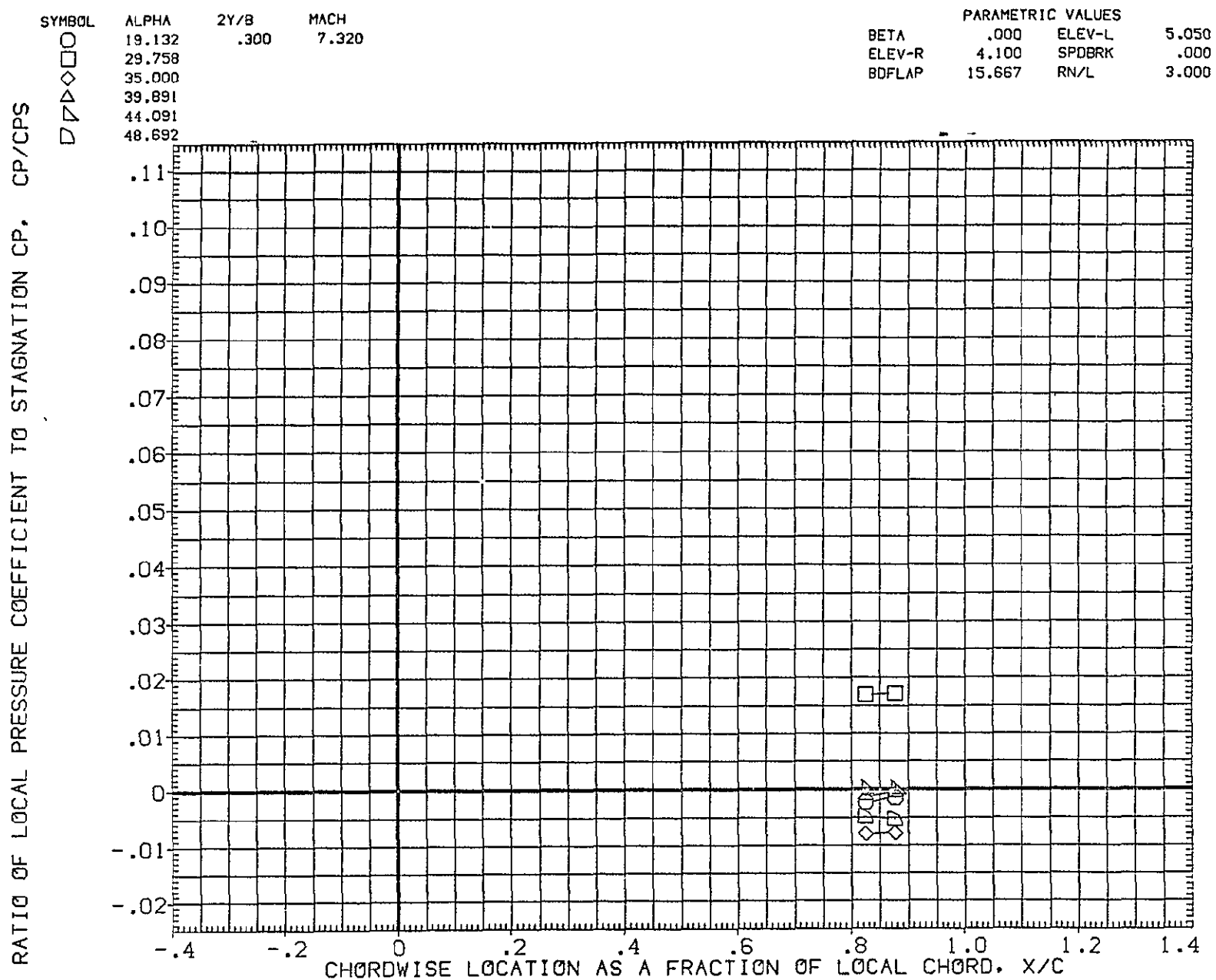


FIG. 8 WING UPPER SURFACE (RT)

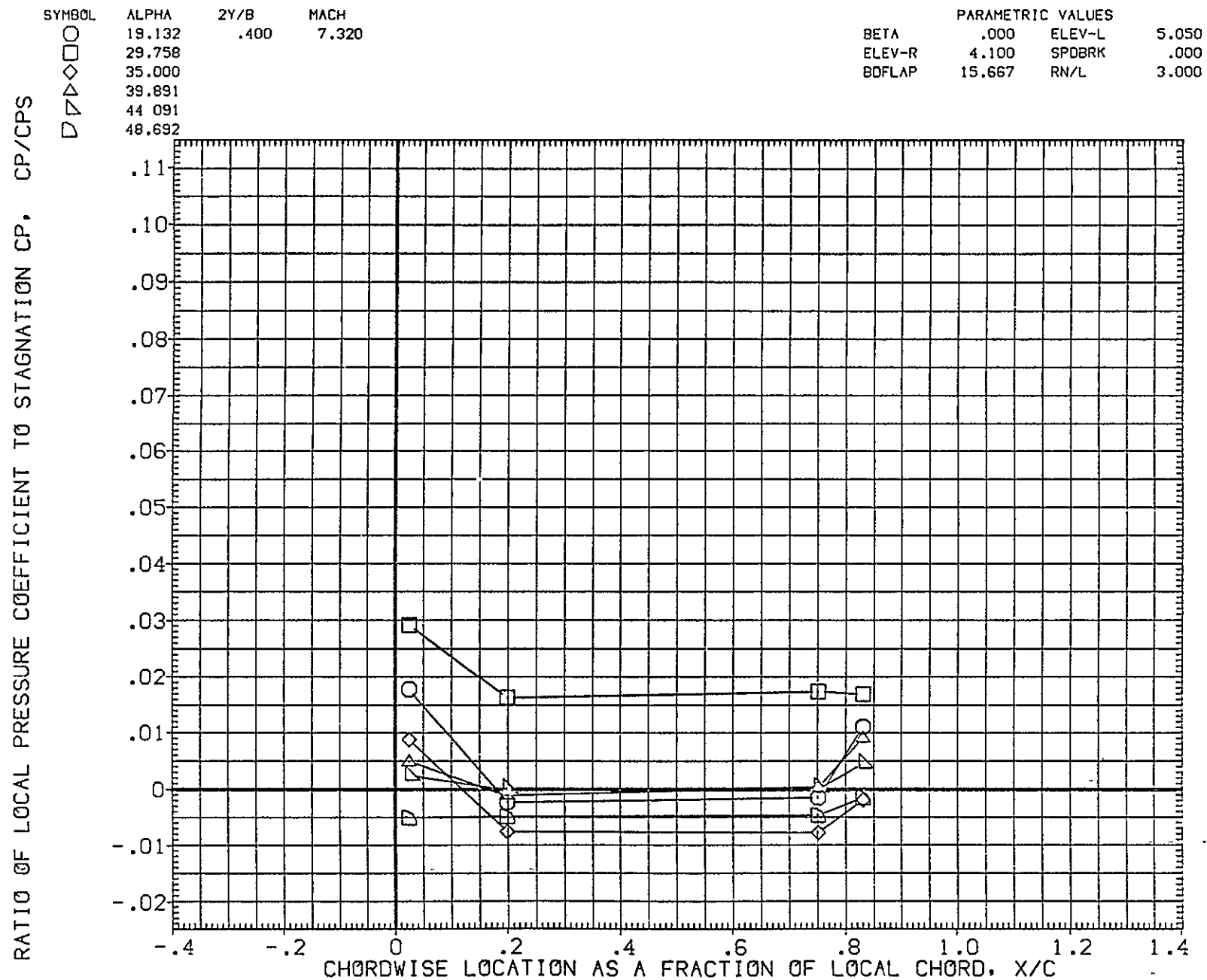


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH07)

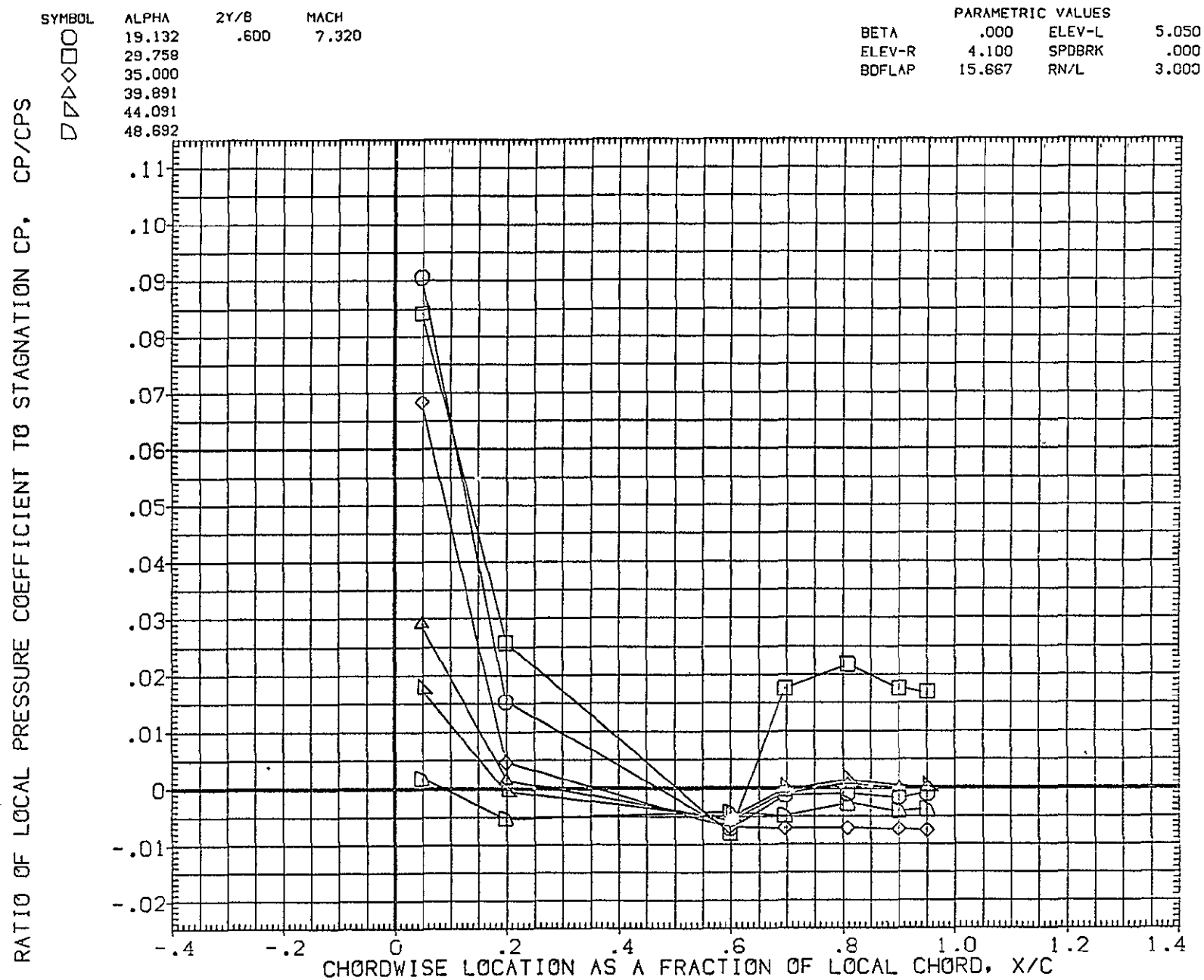


FIG. 8 WING UPPER SURFACE (RT)

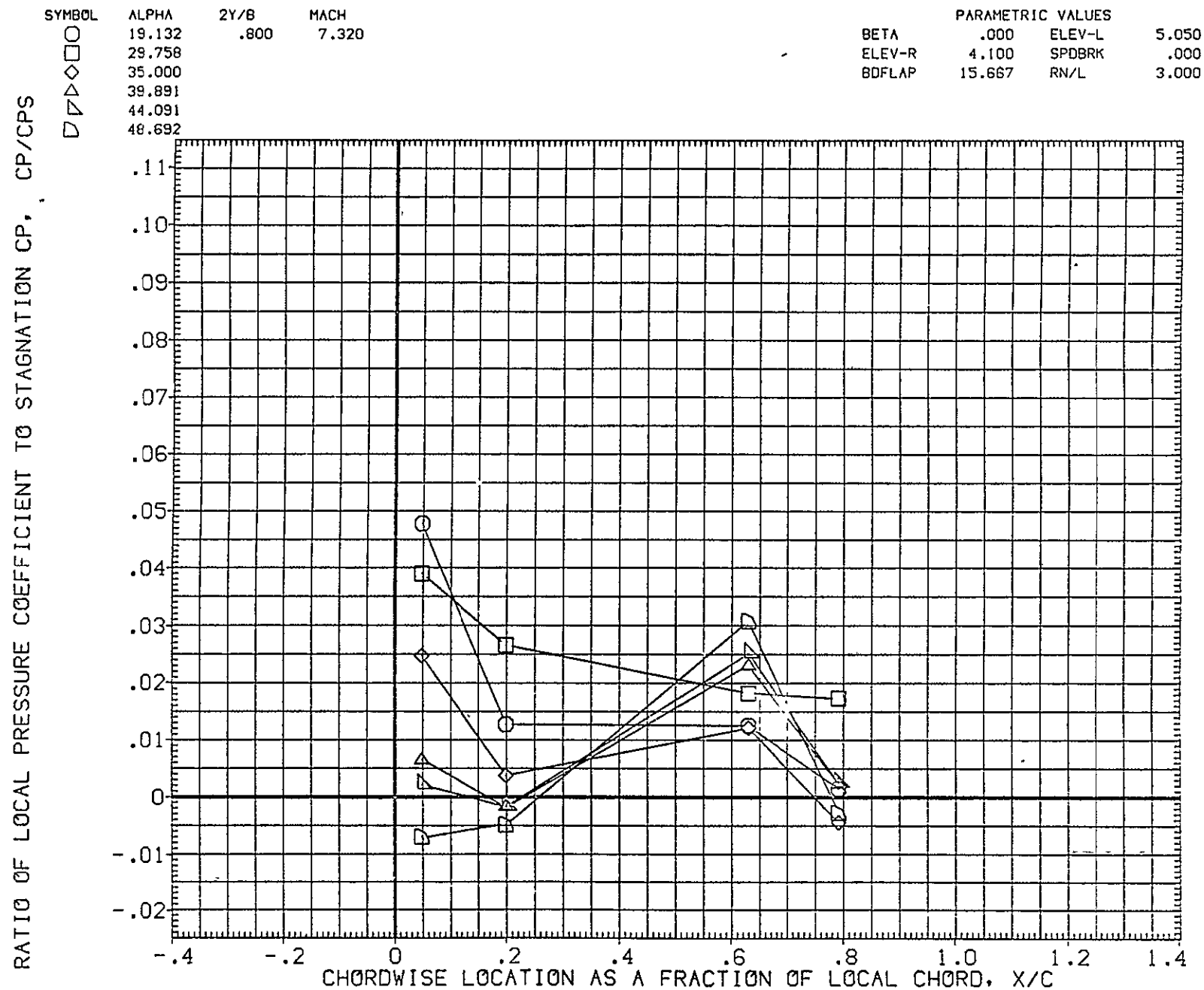


FIG. 8 WING UPPER SURFACE (RT)



ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH07)

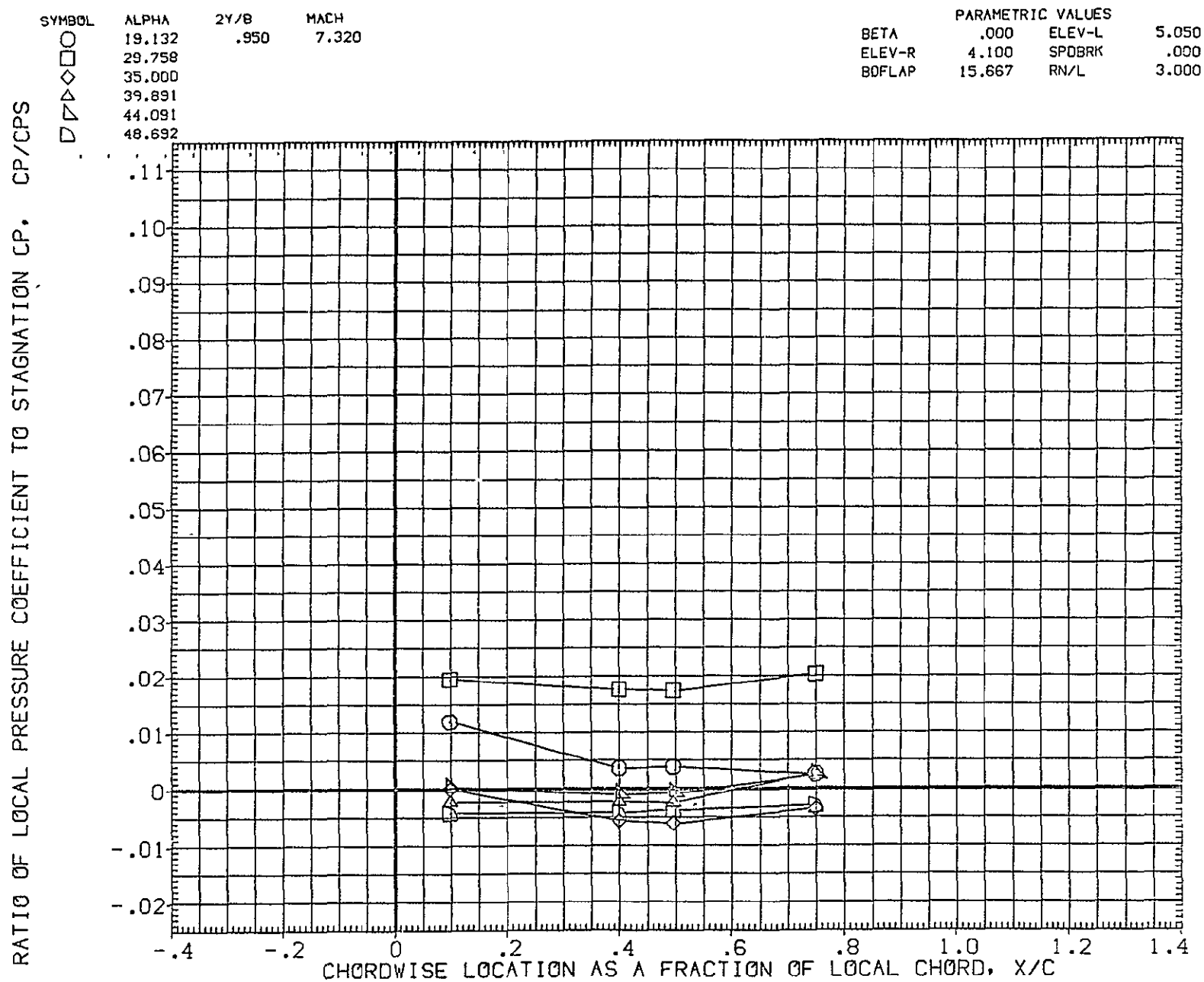


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 14CC 0RB WING UPPER SURFACE(RT)(PEZH11)

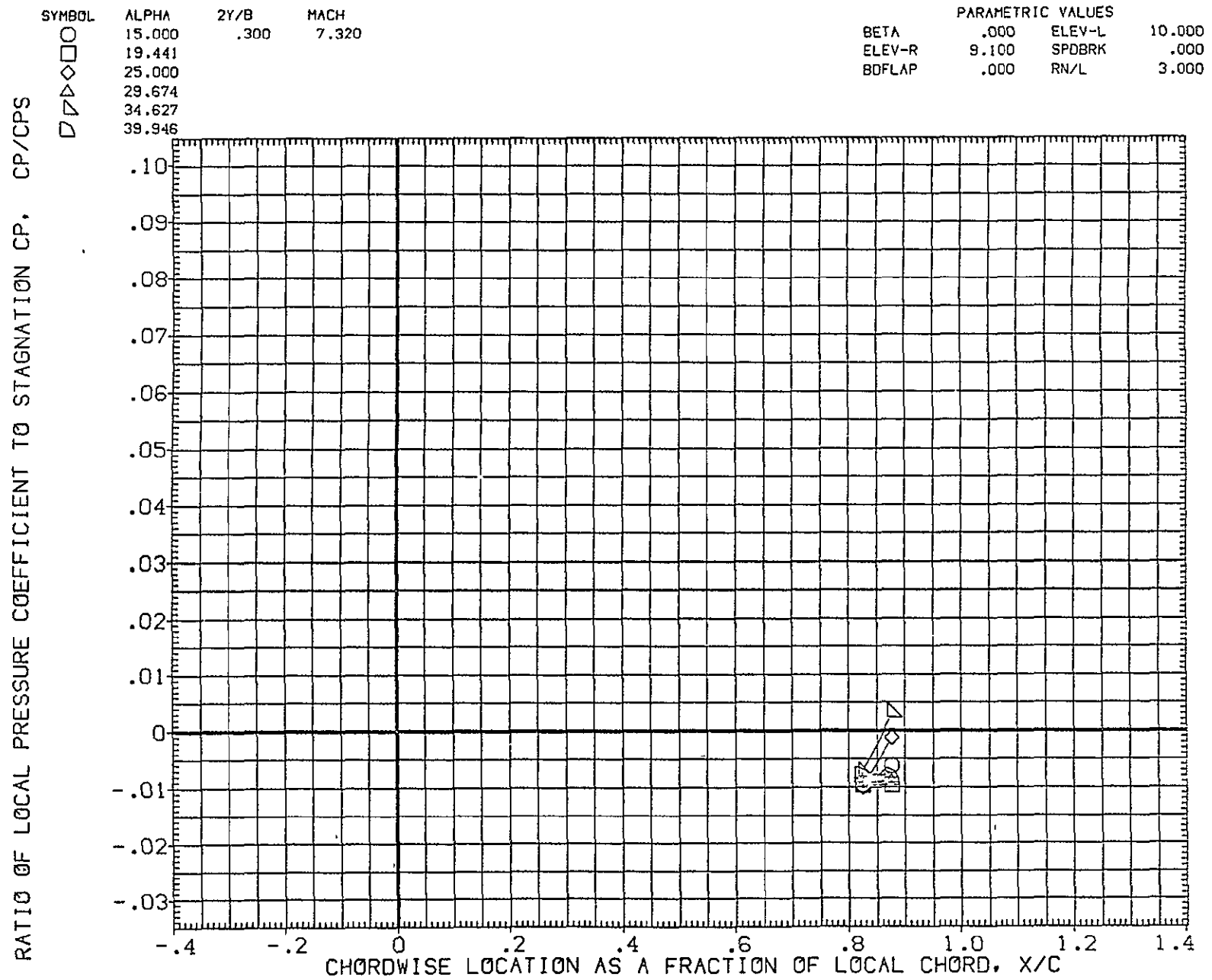


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT) (PEZH11)

SYMBOL	ALPHA	2Y/B	MACH	PARAMETRIC VALUES			
□	44.081	.300	7.320	BETA	.000	ELEV-L	10.000
○	48.676			ELEV-R	9.100	SPDBRK	.000
				BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS.

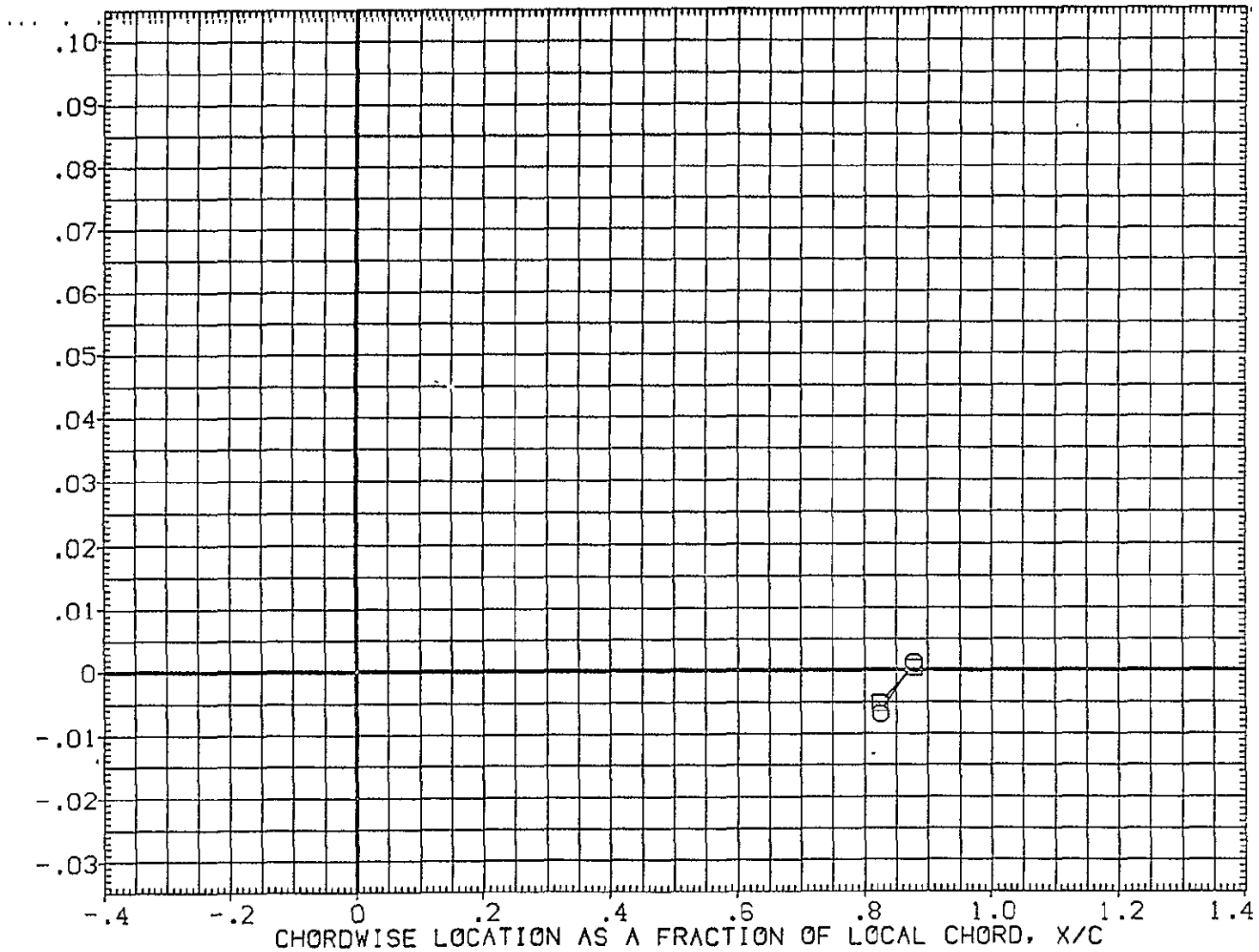


FIG. 8 WING UPPER SURFACE (RT)

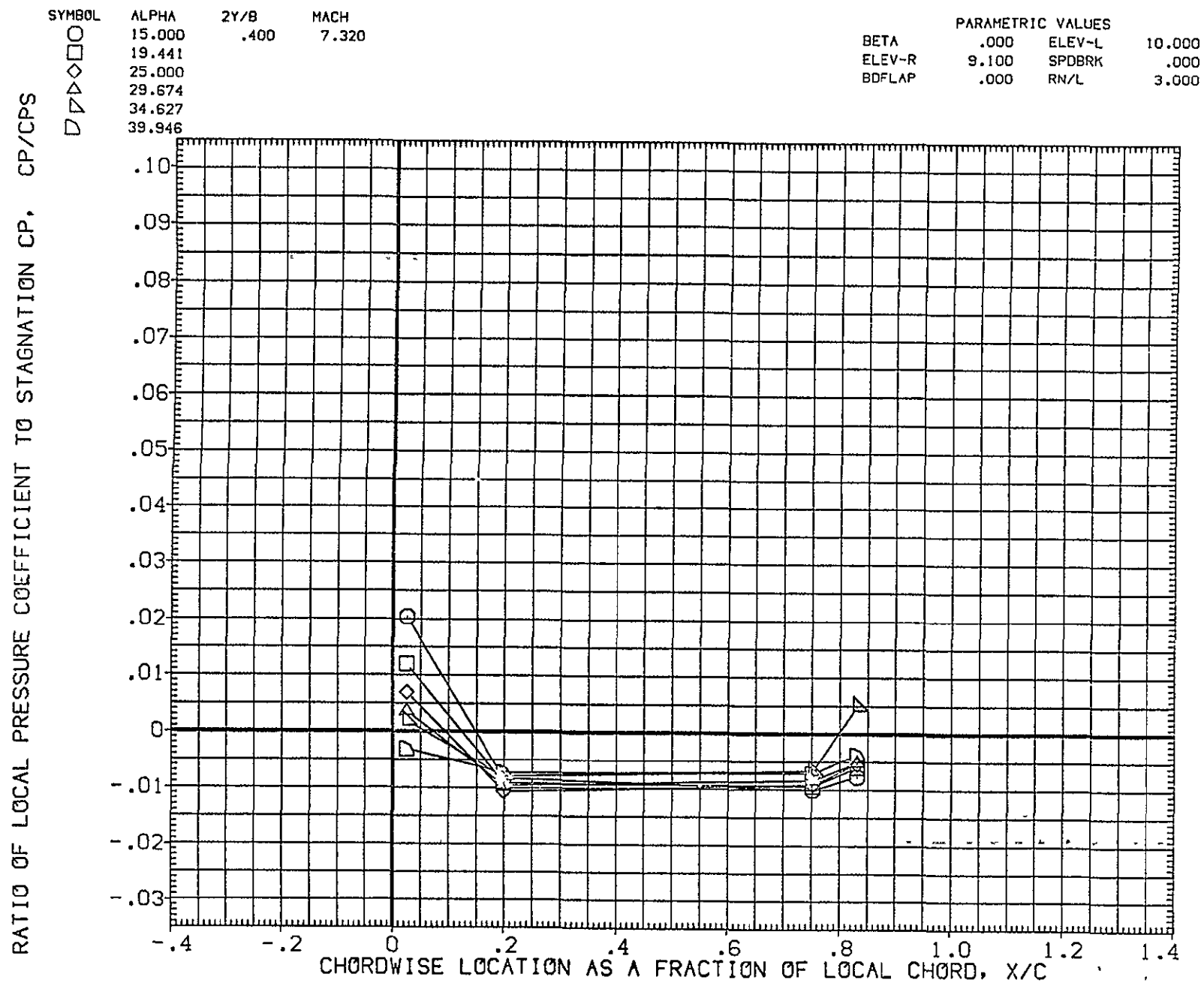


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH11)

SYMBOL	ALPHA	2Y/B	MACH
○	44.091	.400	7.320
□	48.676		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

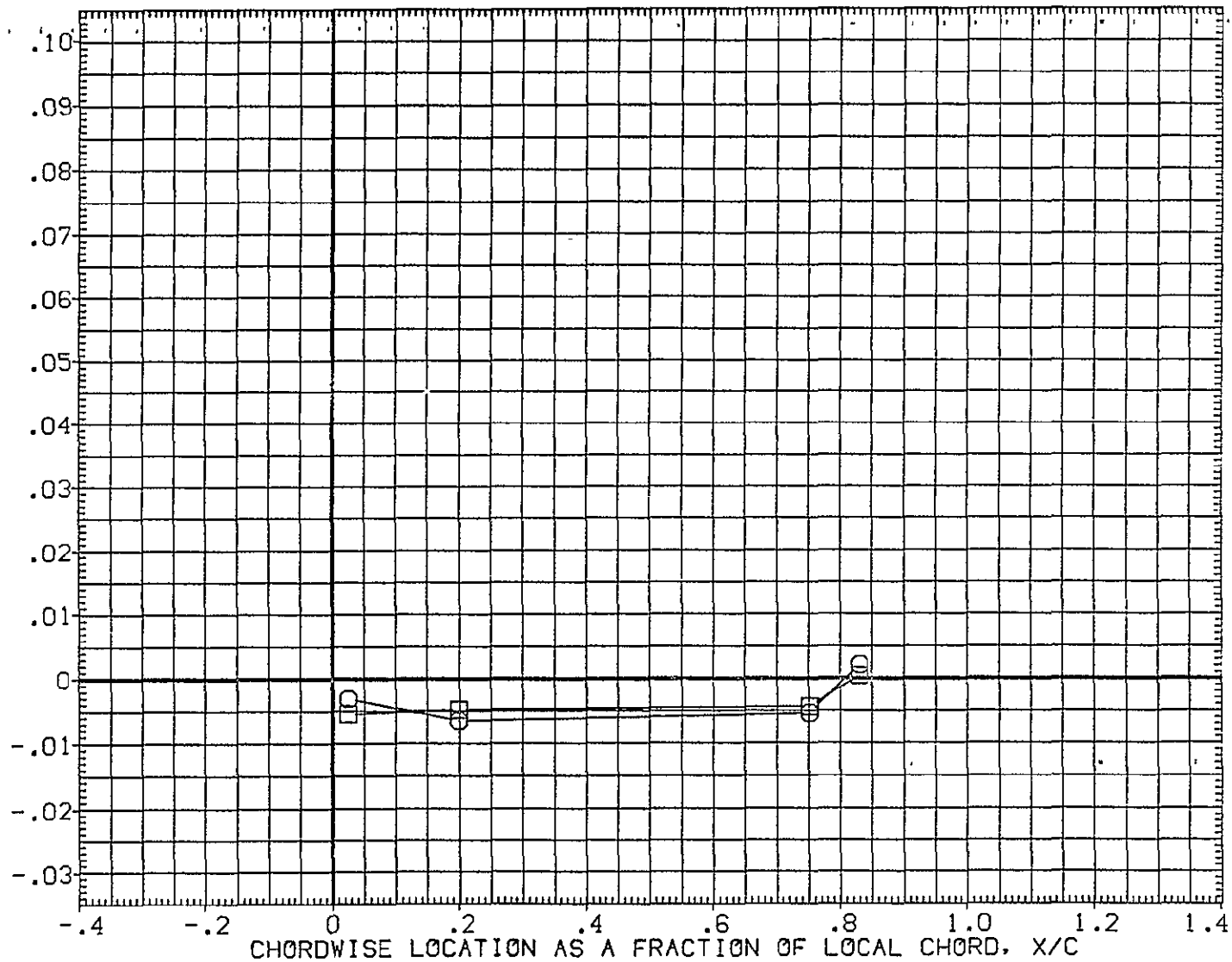


FIG. 8 WING UPPER SURFACE (RT)

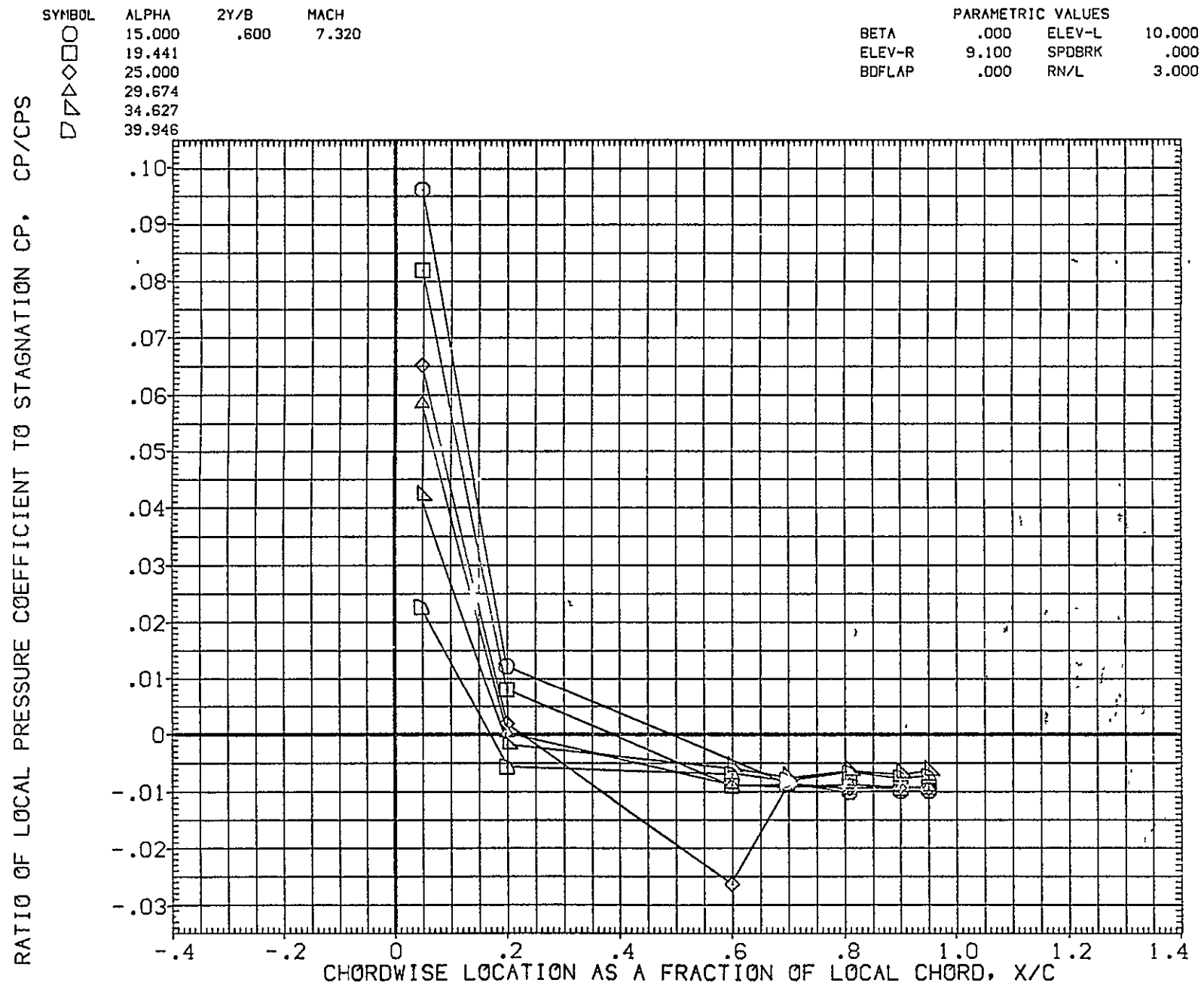


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH11)

SYMBOL  
○  
□

ALPHA 44.081  
48.676  
2Y/B .600  
MACH 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L 10.000  
ELEV-R 9.100 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

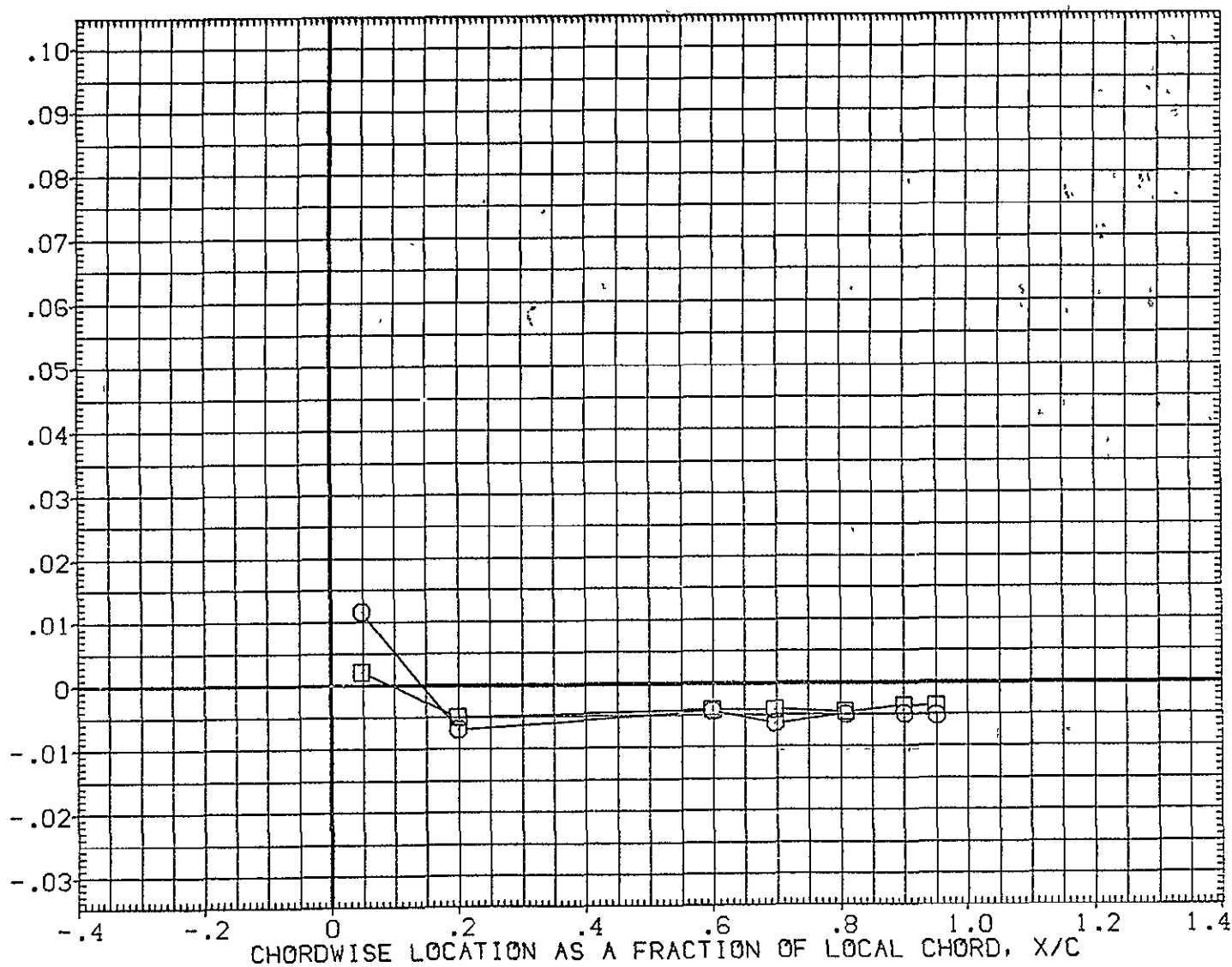


FIG. 8 WING UPPER SURFACE (RT)

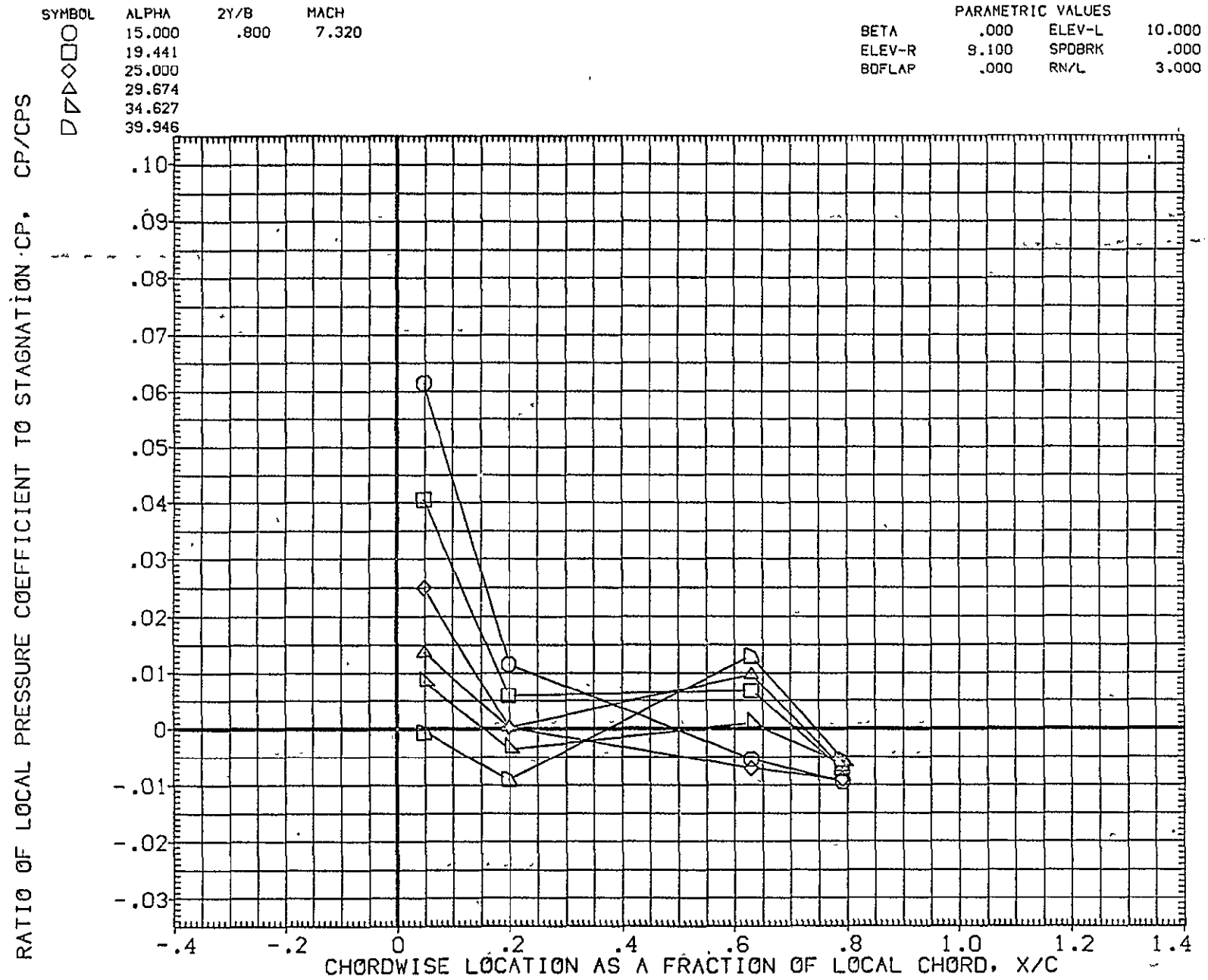


FIG. 8 WING UPPER SURFACE (RT)



ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH11)

SYMBOL	ALPHA	2Y/B	MACH
○	44.081	.800	7.320
□	48.676		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

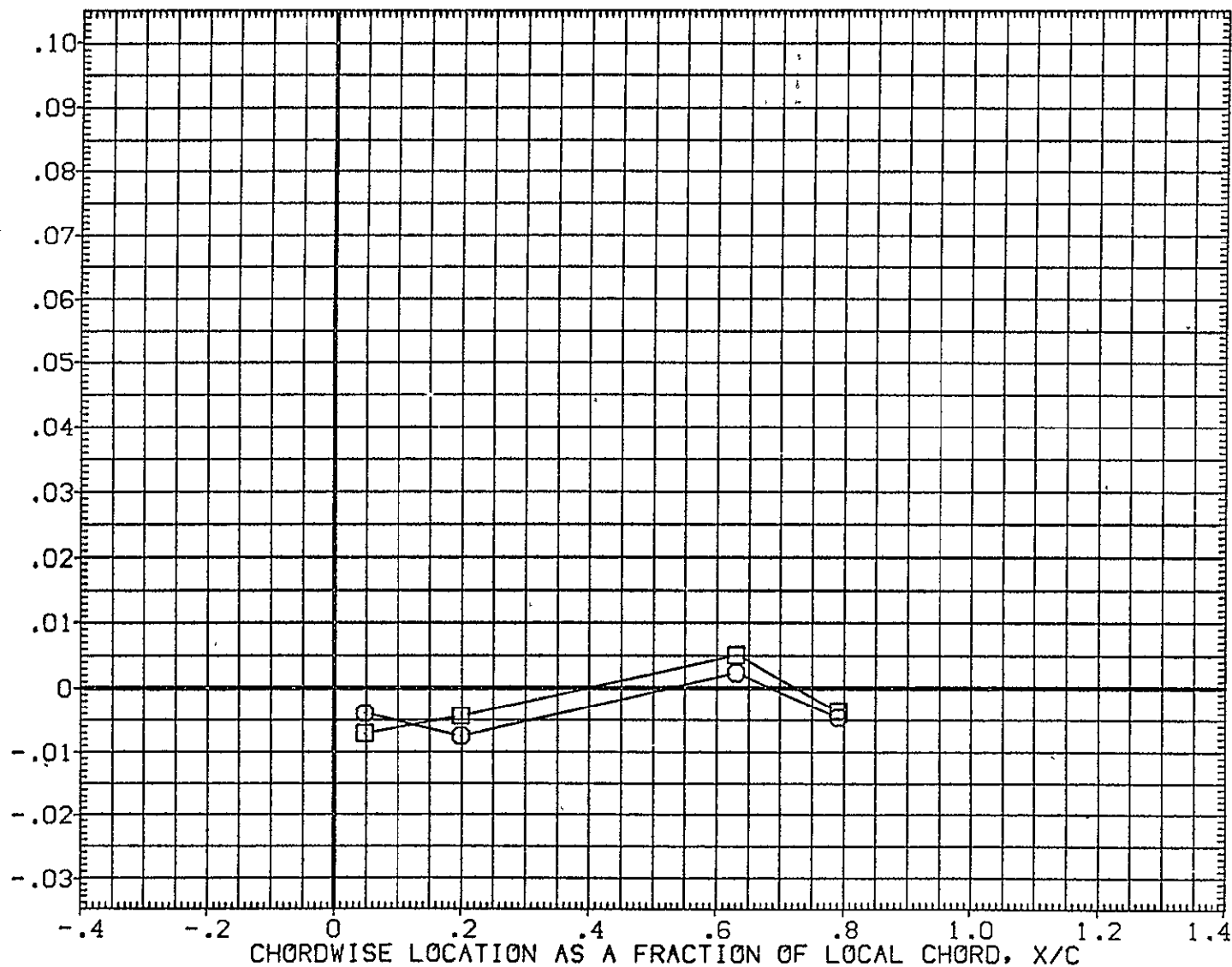


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH11)

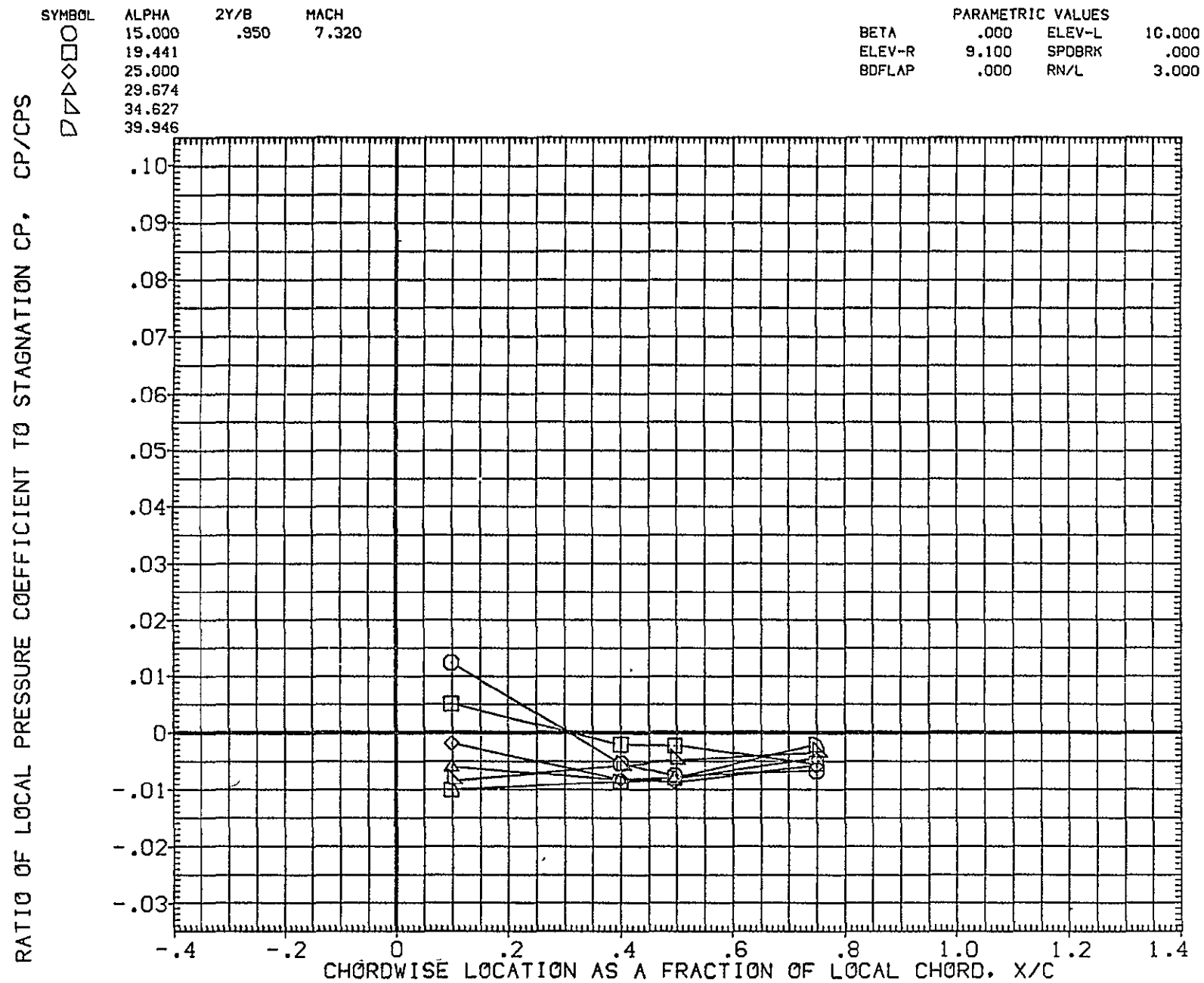


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH11)

SYMBOL



ALPHA

44.081

48.676

2Y/B

.950

MACH

7.320

PARAMETRIC VALUES

BETA

.000

ELEV-L

10.000

ELEV-R

9.100

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

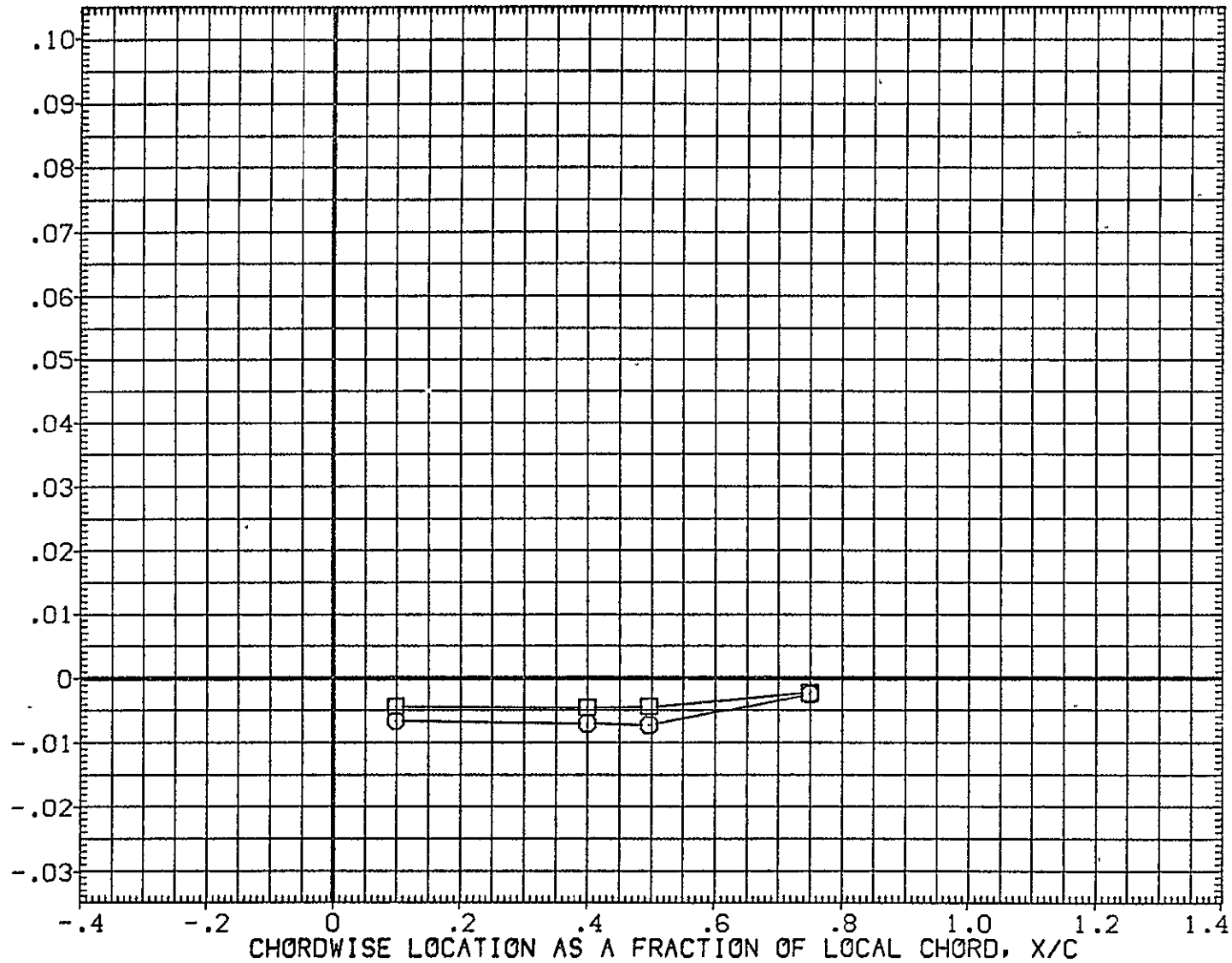


FIG. 8 WING UPPER SURFACE (RT)

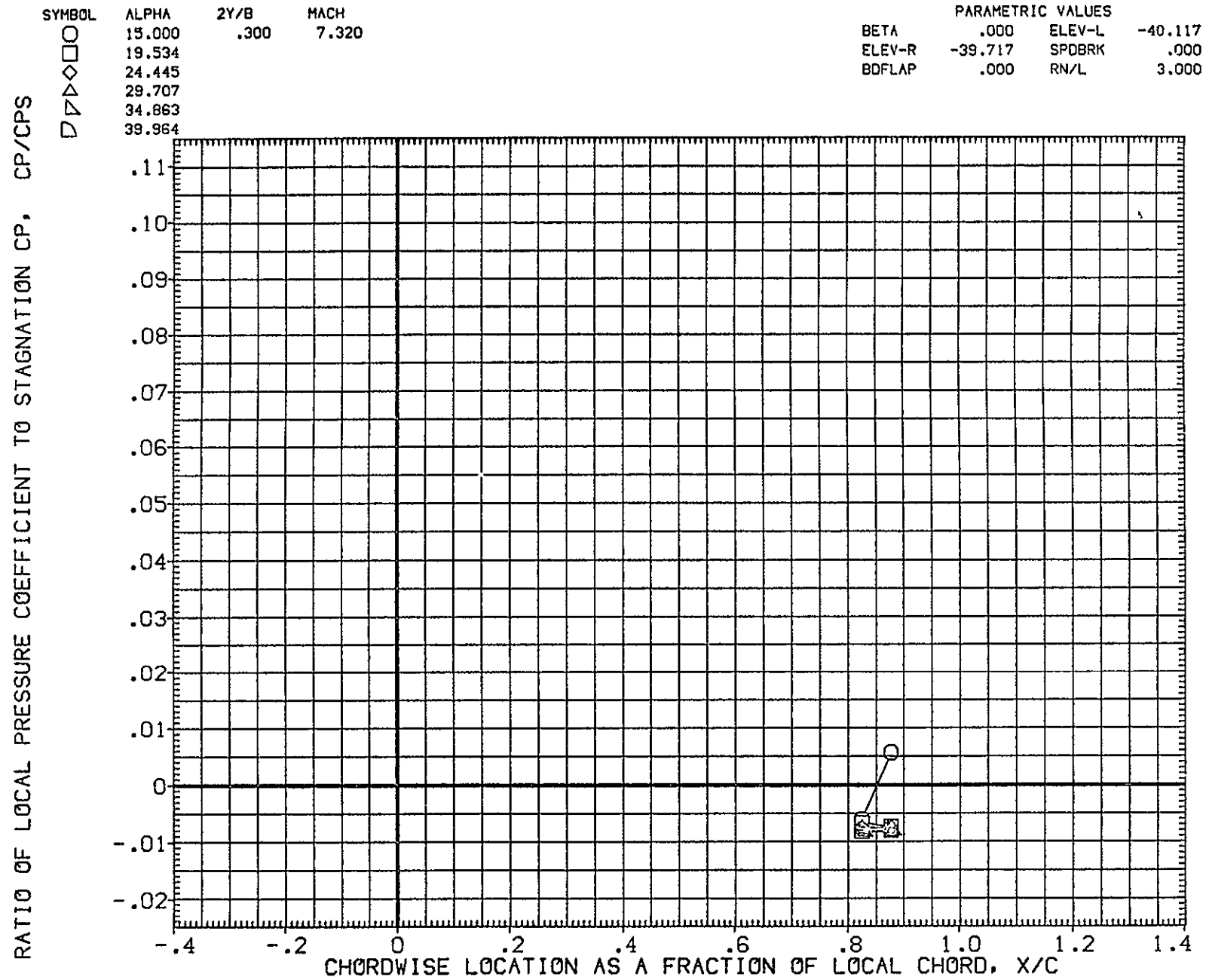


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH14)

SYMBOL	ALPHA	2Y/B	MACH
○	44.152	.300	7.320
□	50.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

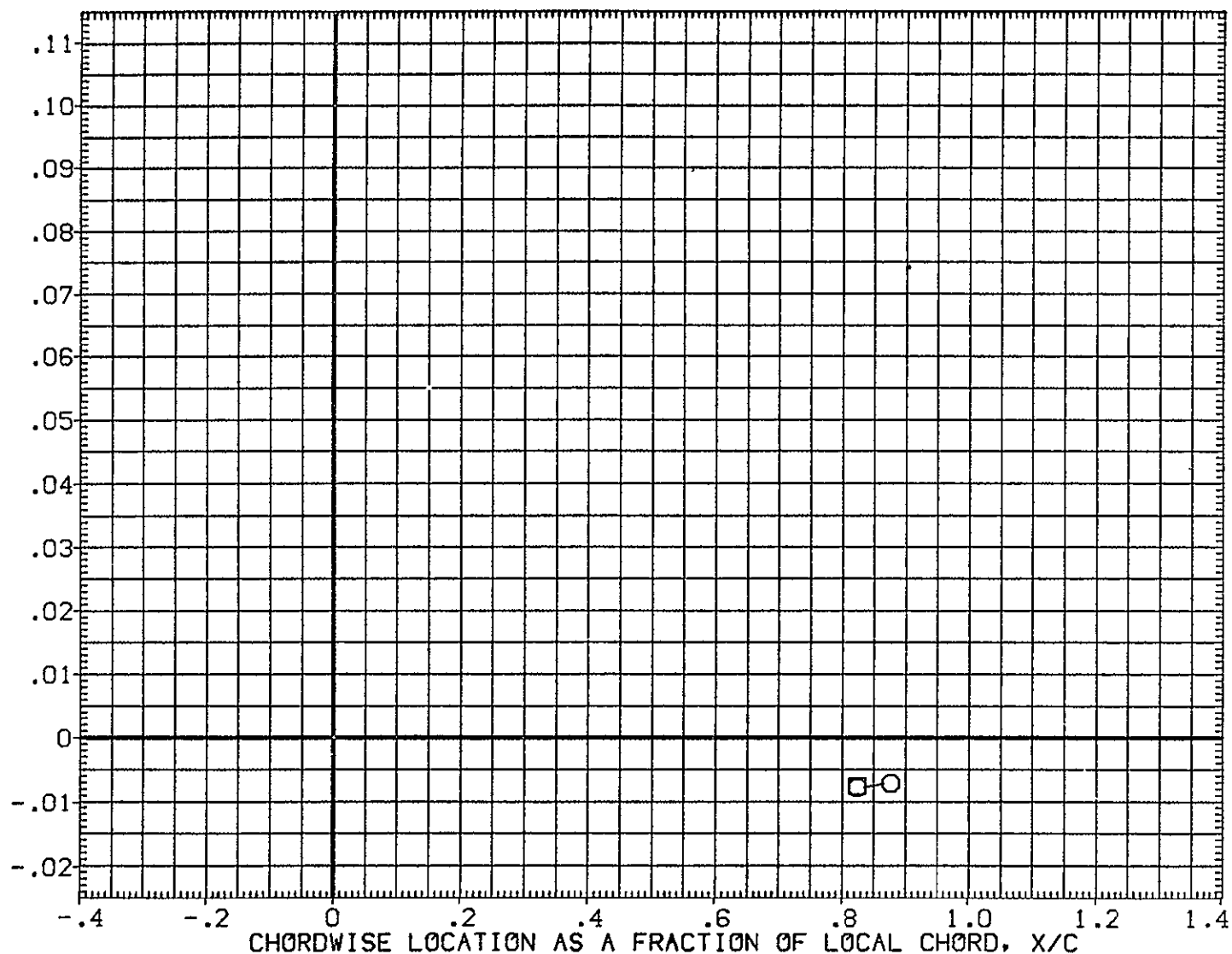


FIG. 8 WING UPPER SURFACE (RT)

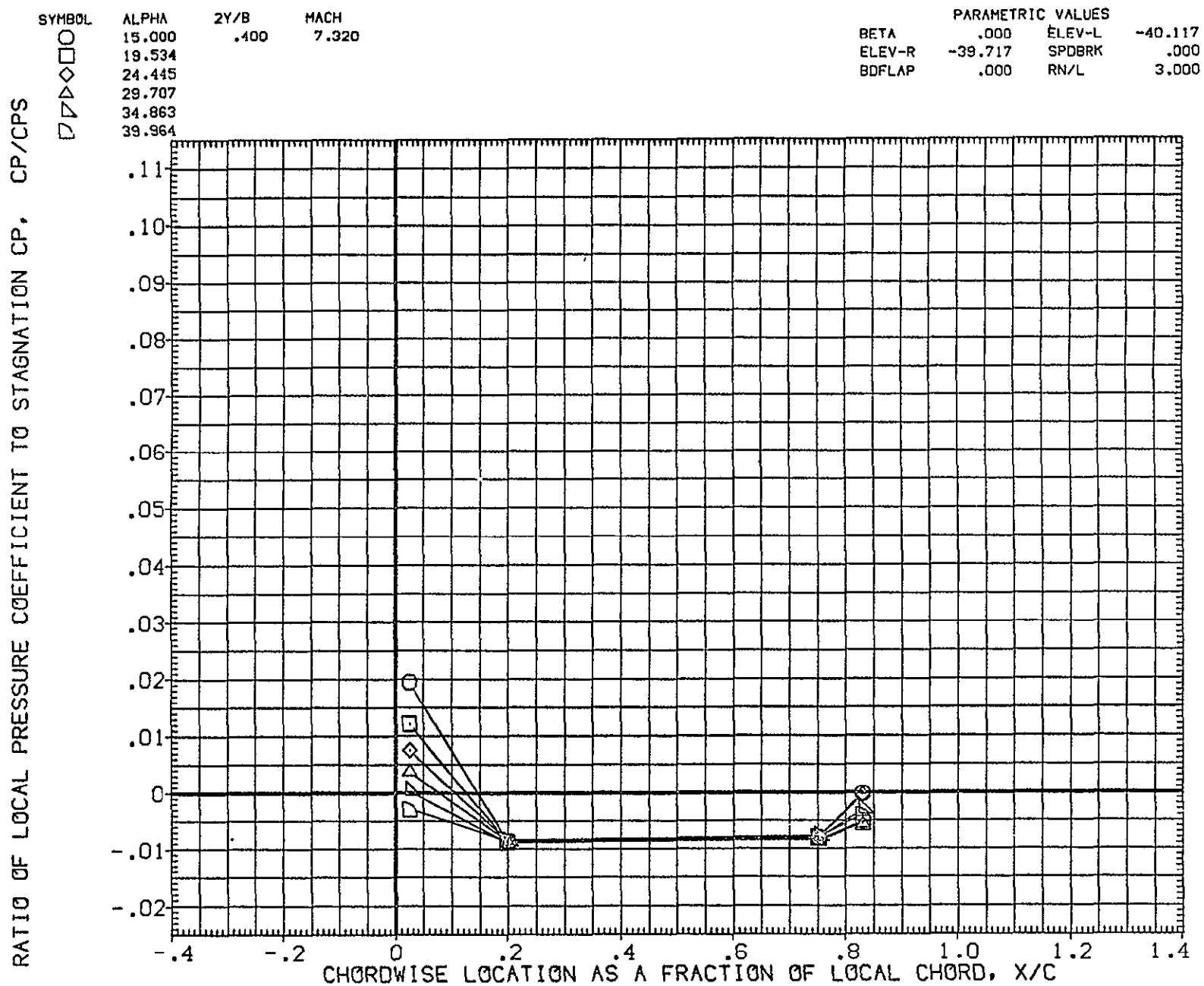


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH14)

SYMBOL  
○  
□

ALPHA 44.152  
50.000  
2Y/B .400  
MACH 7.320

PARAMETRIC VALUES  
BETA .000 ELEV-L -40.117  
ELEV-R -39.717 SPDBRK .000  
BOFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

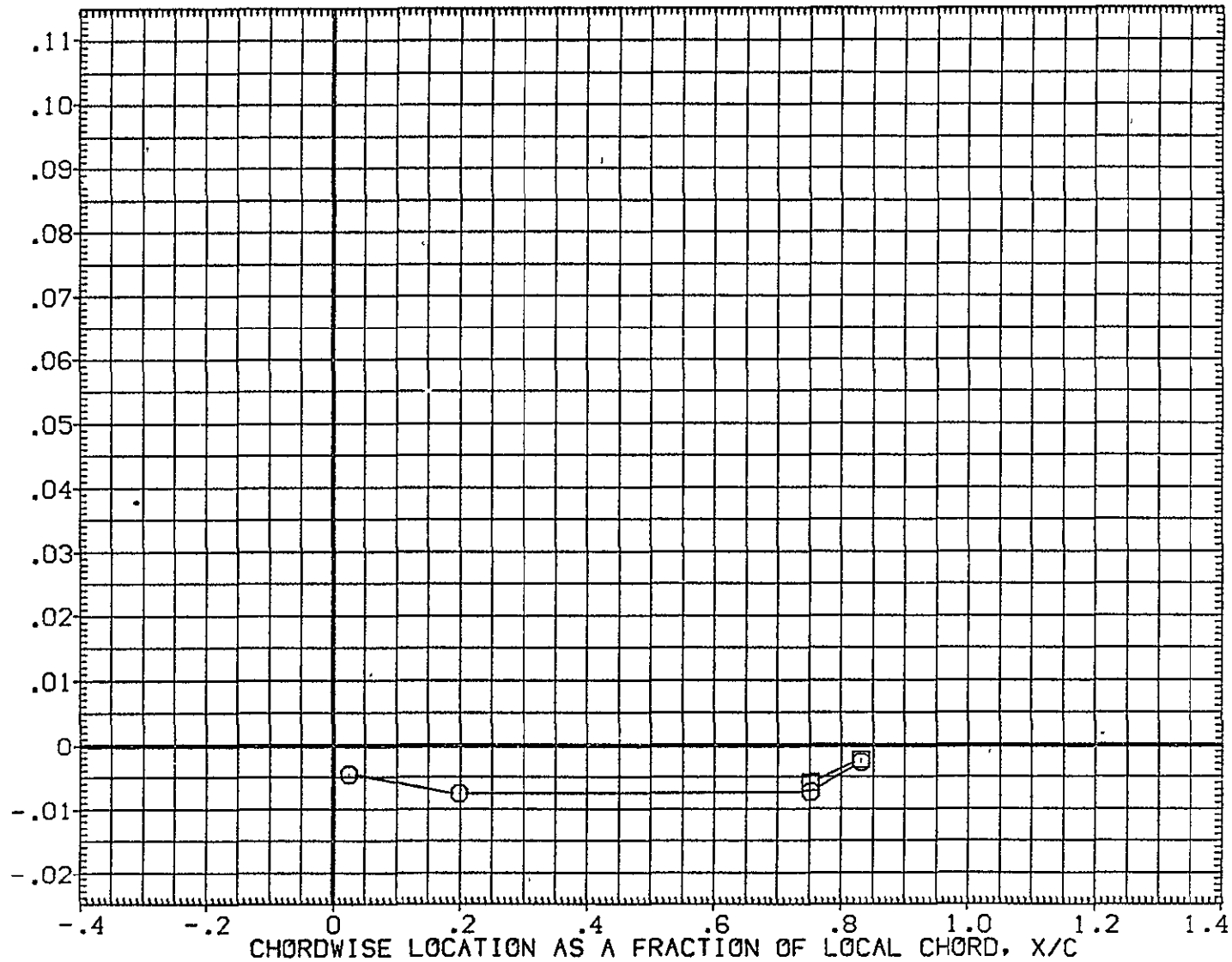


FIG. 8 WING UPPER SURFACE (RT)

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

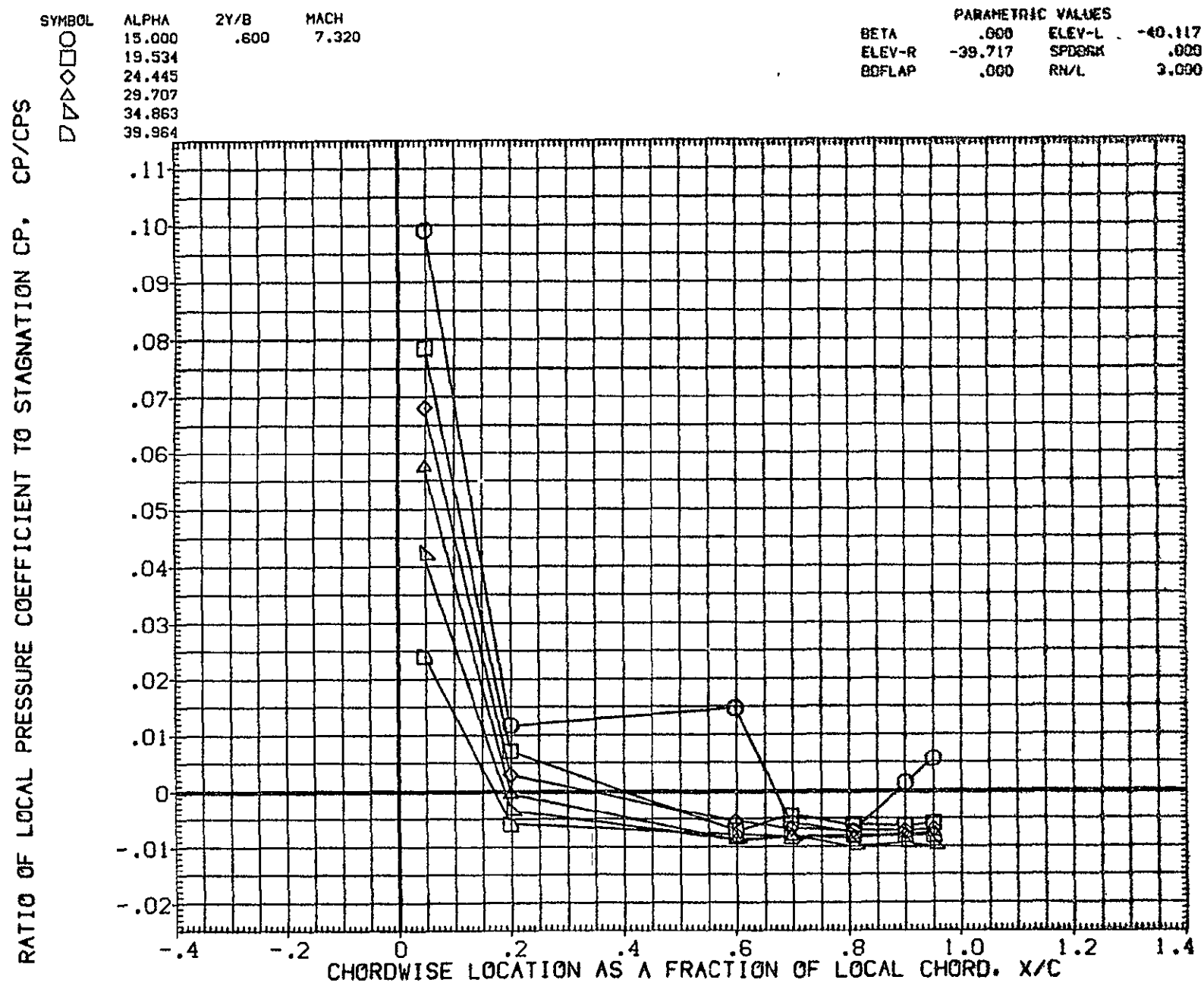


FIG. 8 WING UPPER SURFACE (RT)



ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH14)

SYMBOL	ALPHA	2Y/B	MACH		PARAMETRIC VALUES		
○	44.152	.600	7.320		BETA	.000	ELEV-L -40.117
□	50.000				ELEV-R	-39.717	SPDBRK .000
					BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

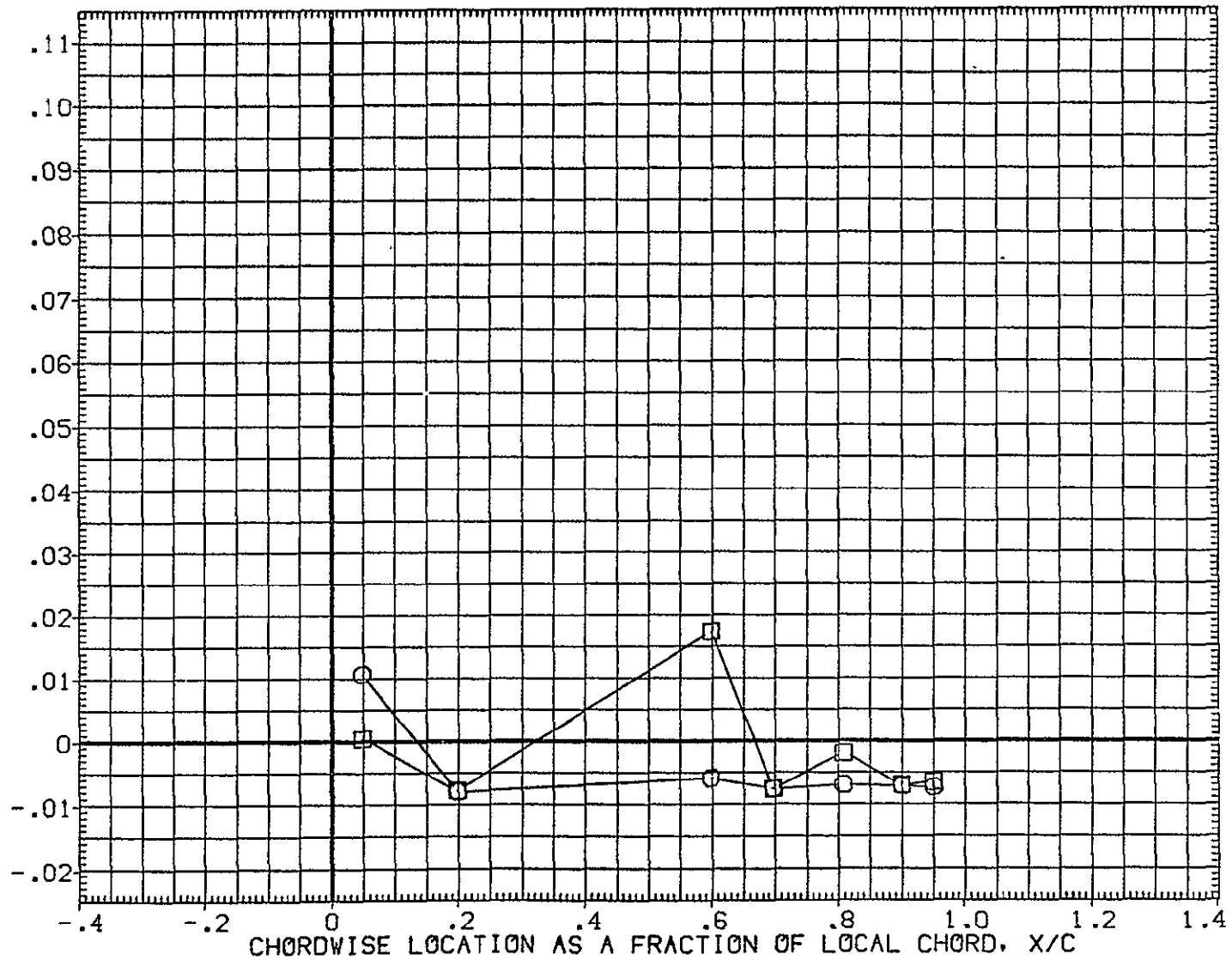


FIG. 8 WING UPPER SURFACE (RT)

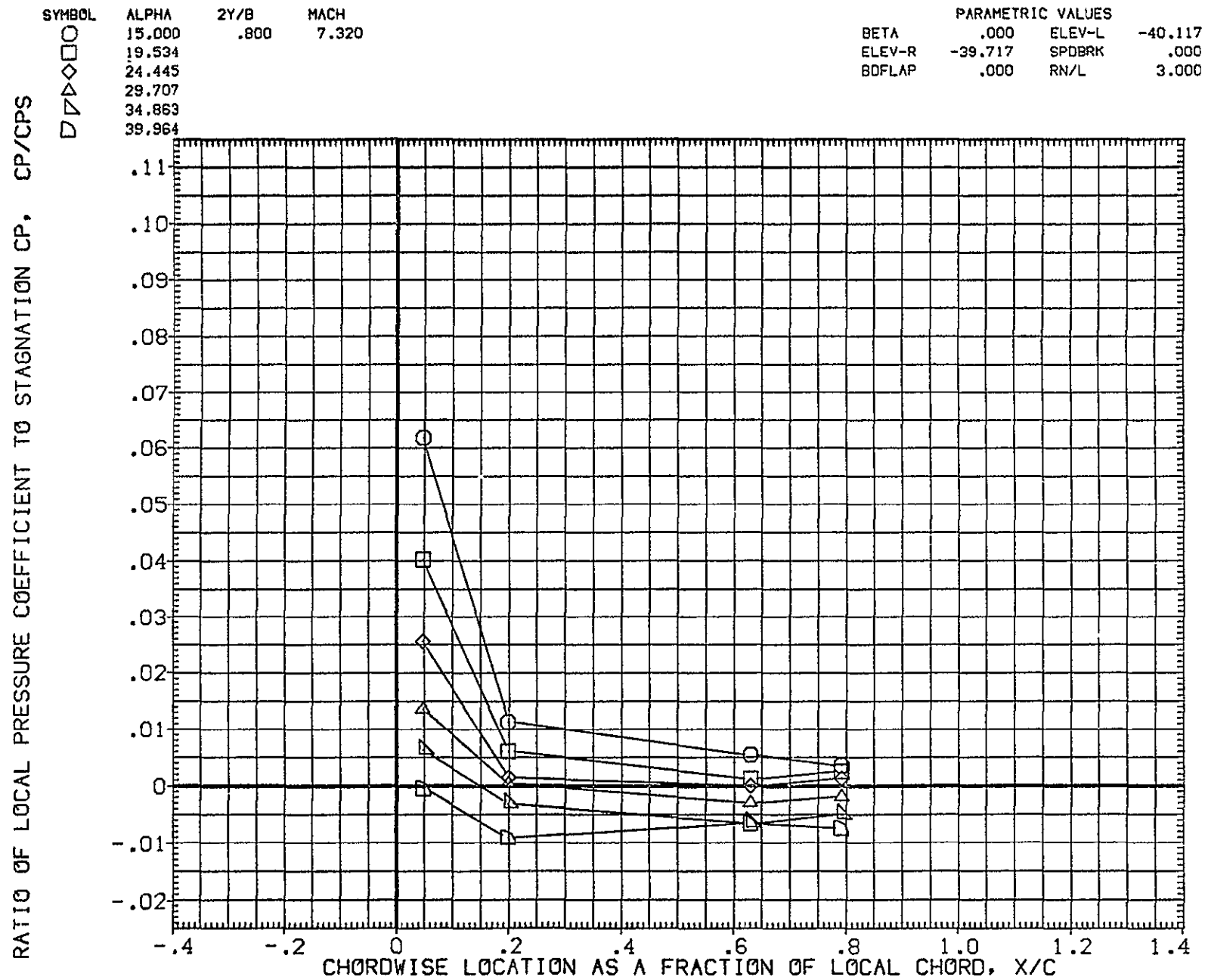


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH14)

SYMBOL  
○  
□

ALPHA  
44.152  
50.000

2Y/B  
.800

MACH  
7.320

## PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

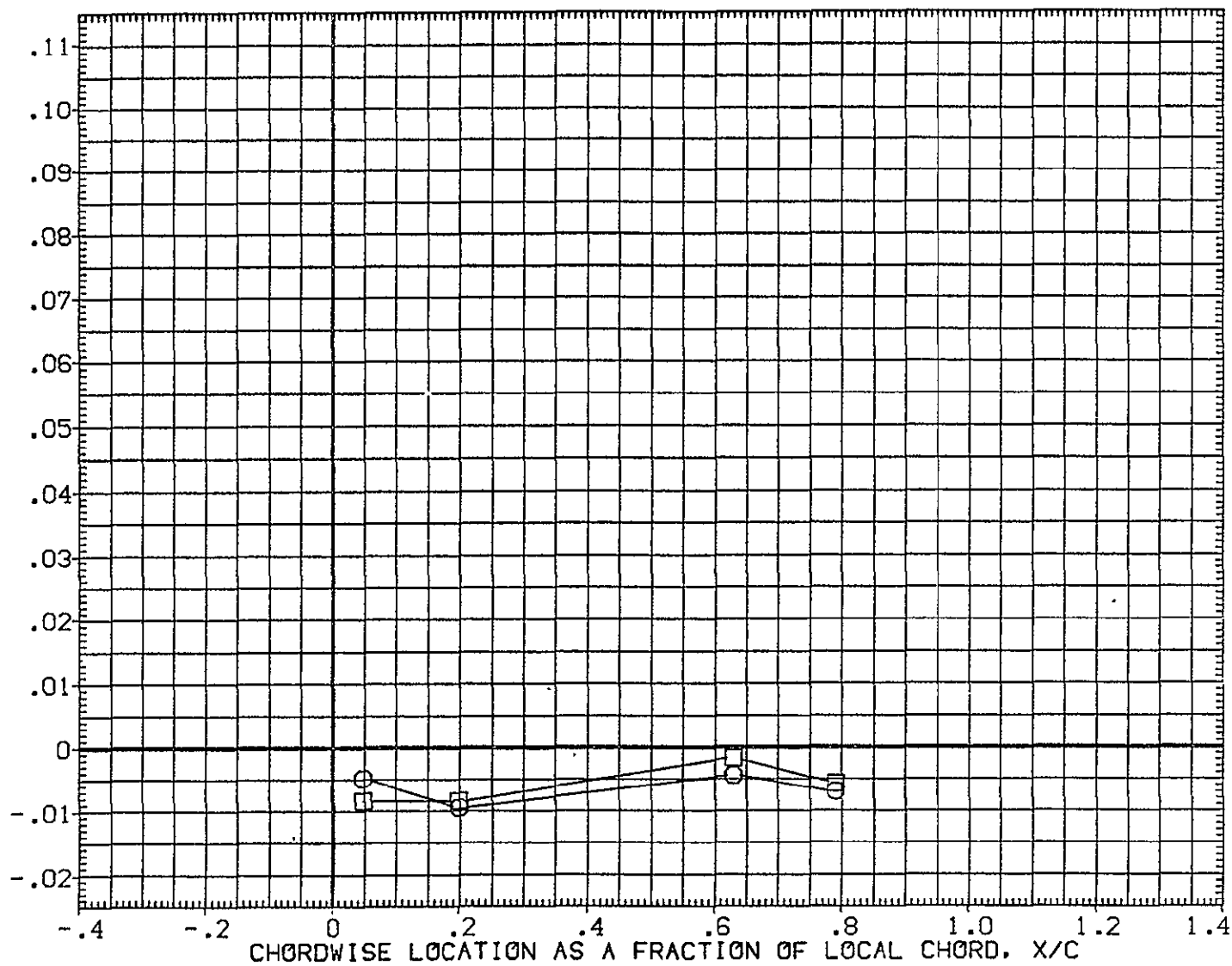


FIG. 8 WING UPPER SURFACE (RT)

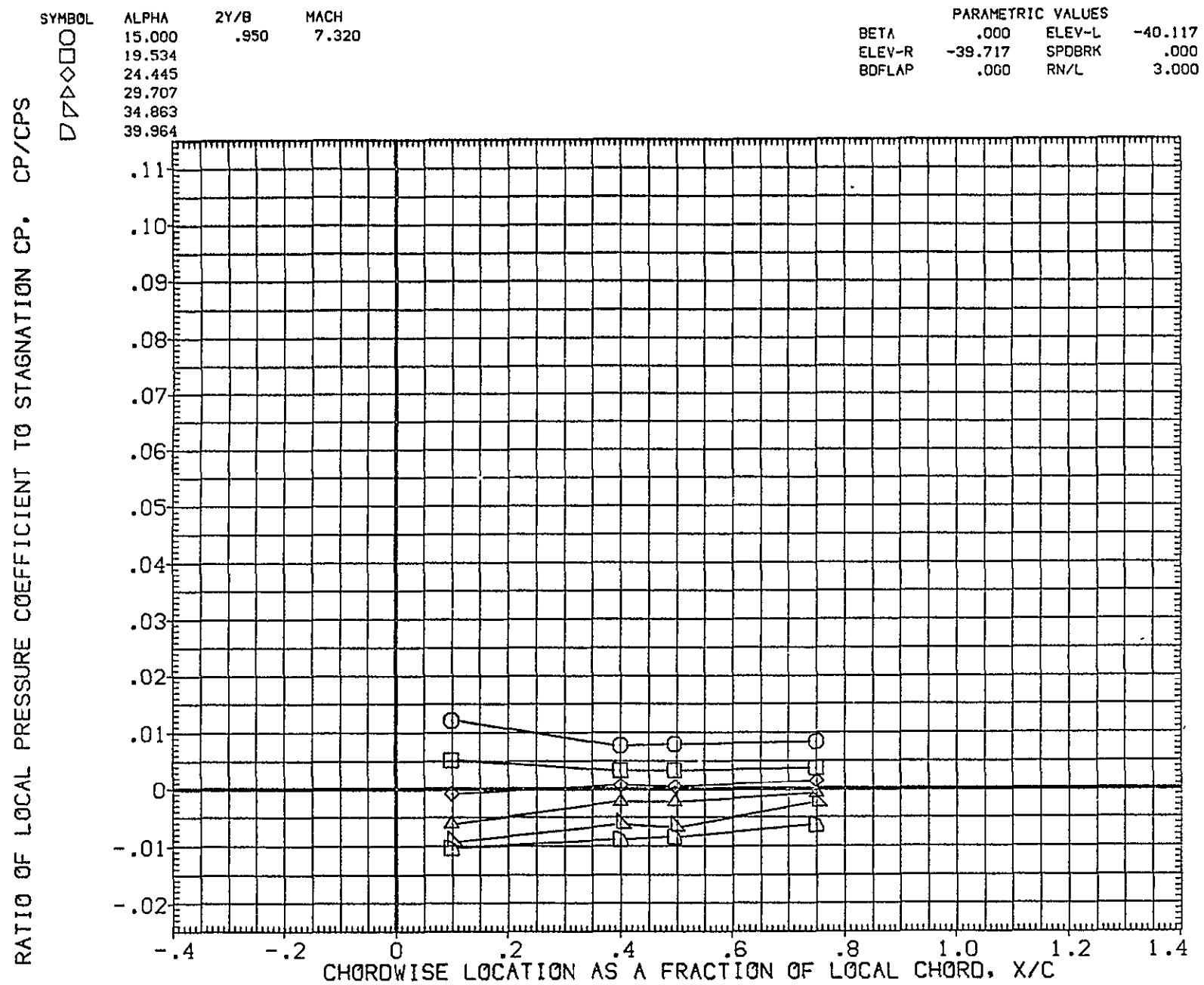


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C ORB WING UPPER SURFACE(RT)(PEZH14)

SYMBOL  
○  
□

ALPHA  
44.152  
50.000

2Y/B  
.950

MACH  
7.320

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

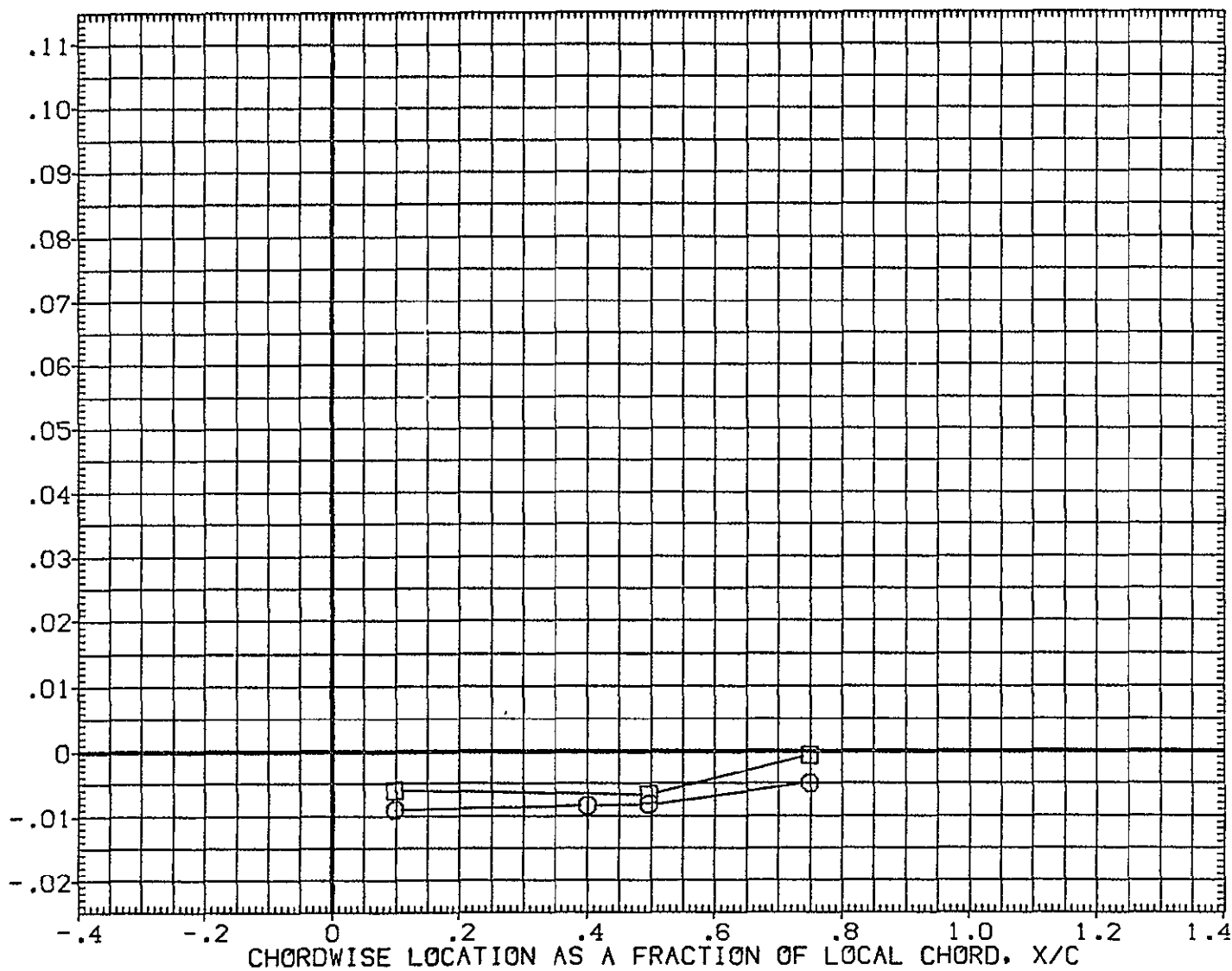


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH16)

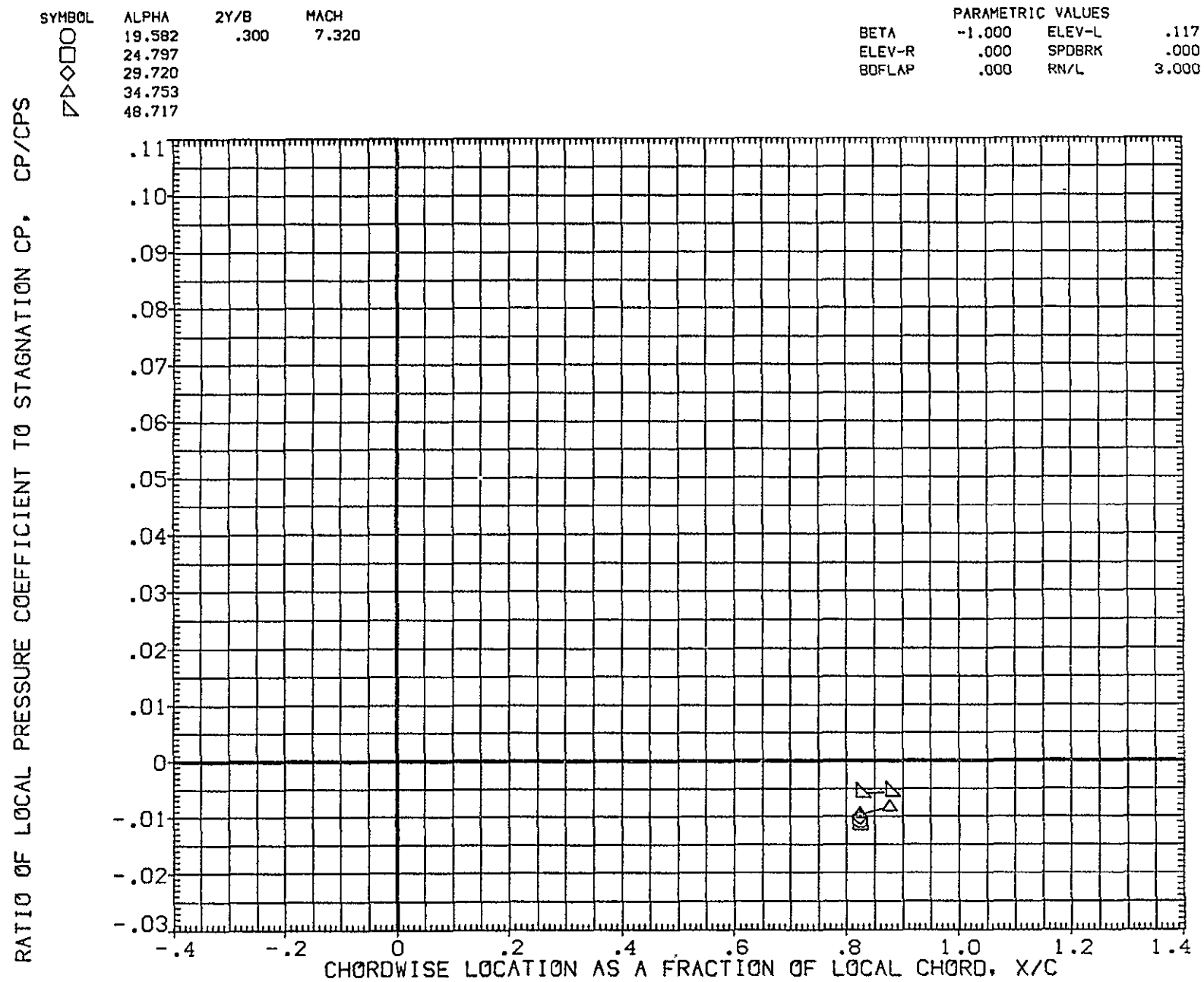


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH16)

SYMBOL  
○  
◇  
△  
▽

ALPHA  
19.582  
24.797  
29.720  
34.753  
48.717

2Y/B  
.400

MACH  
7.320

## PARAMETRIC VALUES

BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

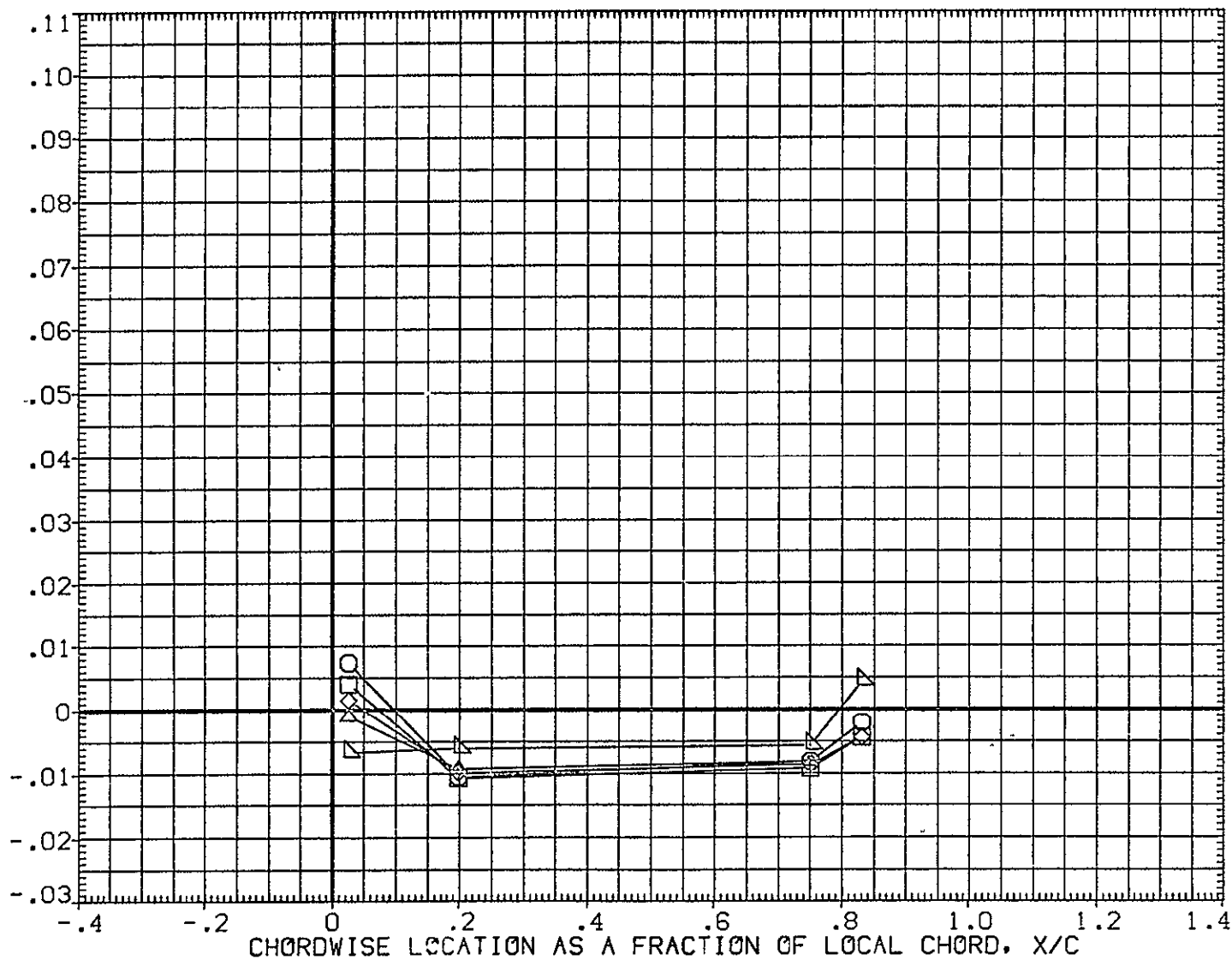


FIG. 8 WING UPPER SURFACE (RT)

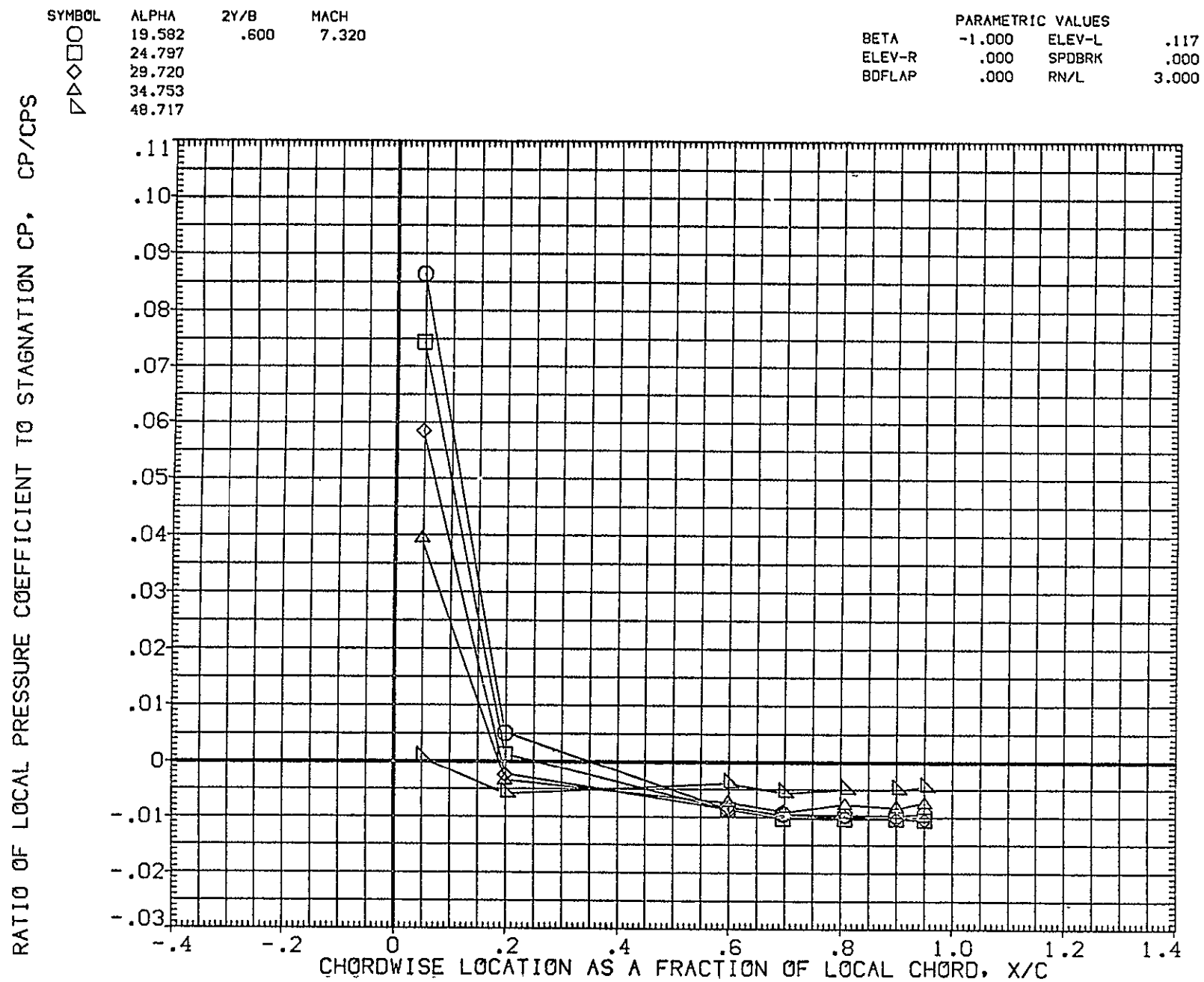


FIG. 8 WING UPPER SURFACE (RT)



# ARC 3.5-198 OH38 140C ORB WING UPPER SURFACE(RT)(PEZH16)

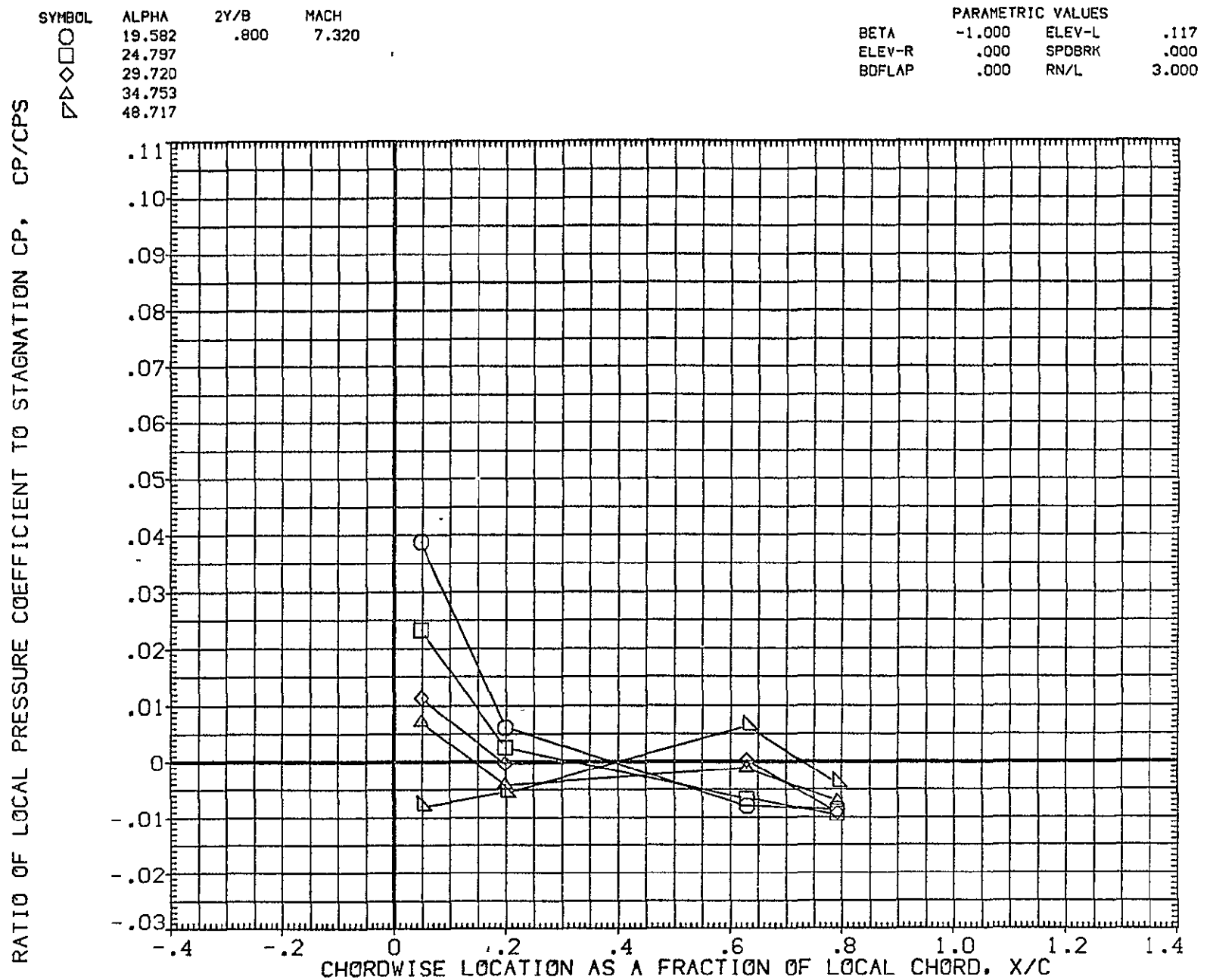


FIG. 8 WING UPPER SURFACE (RT)

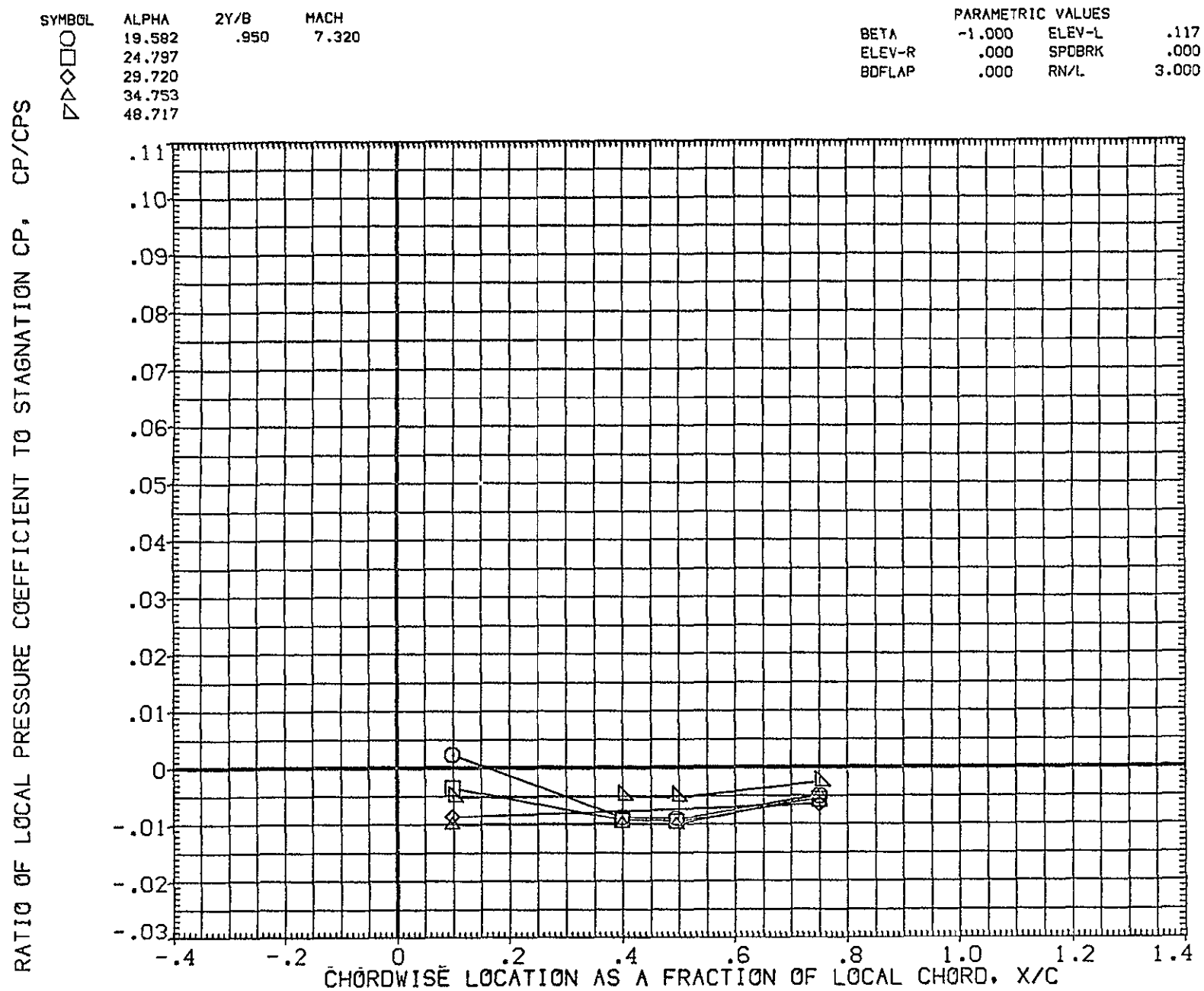


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT) (PEZH20)

SYMBOL

ALPHA  
19.744  
24.851  
29.725  
34.881  
39.932  
44.136

2Y/B  
.300

MACH  
10.290

PARAMETRIC VALUES

BETA .000 ELEV-L .117  
ELEV-R .000 SPDBRK .000  
BDFLAP .000 RN/L 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○ □ ◇ △ ▽

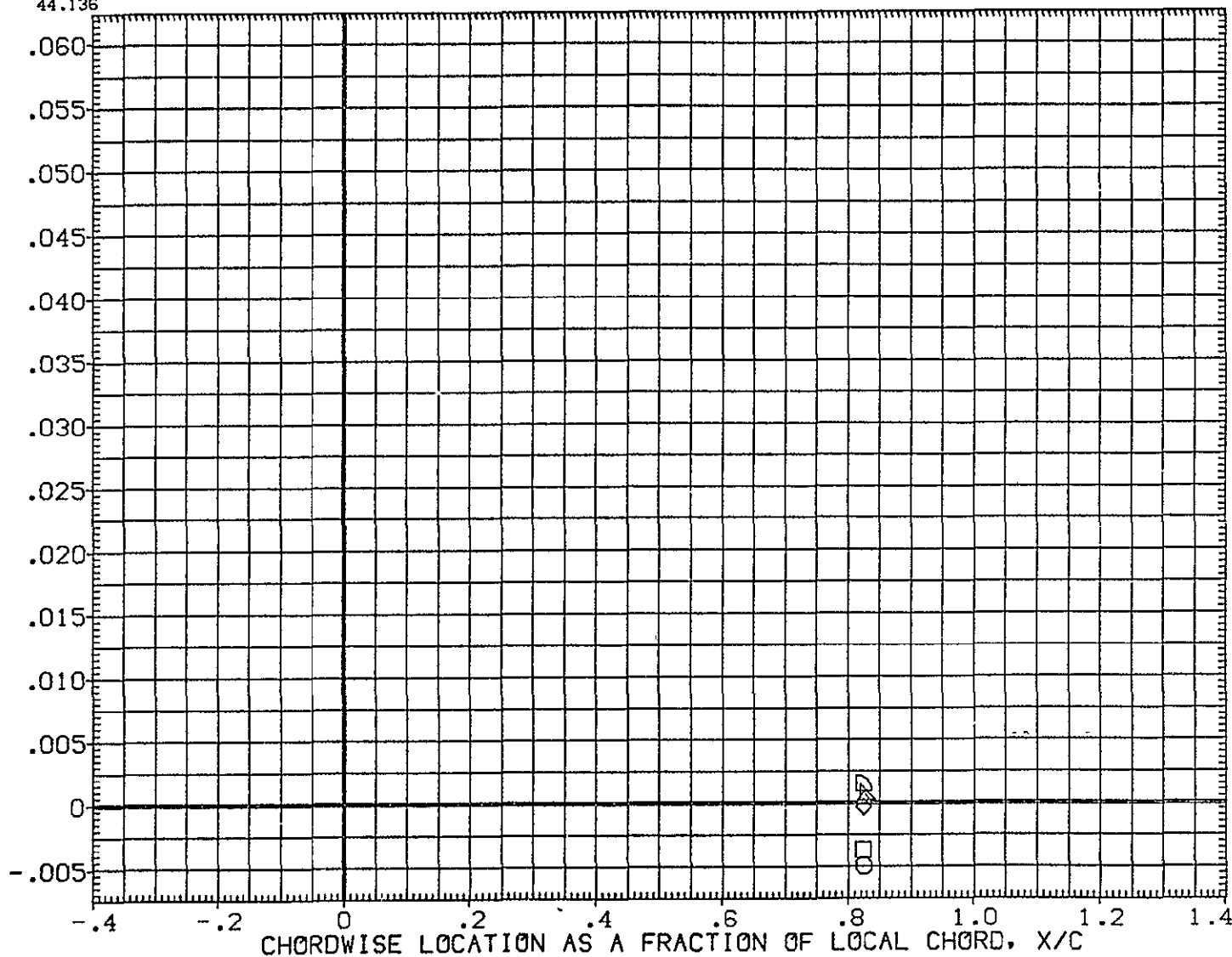


FIG. 8 WING UPPER SURFACE (RT)

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH20)

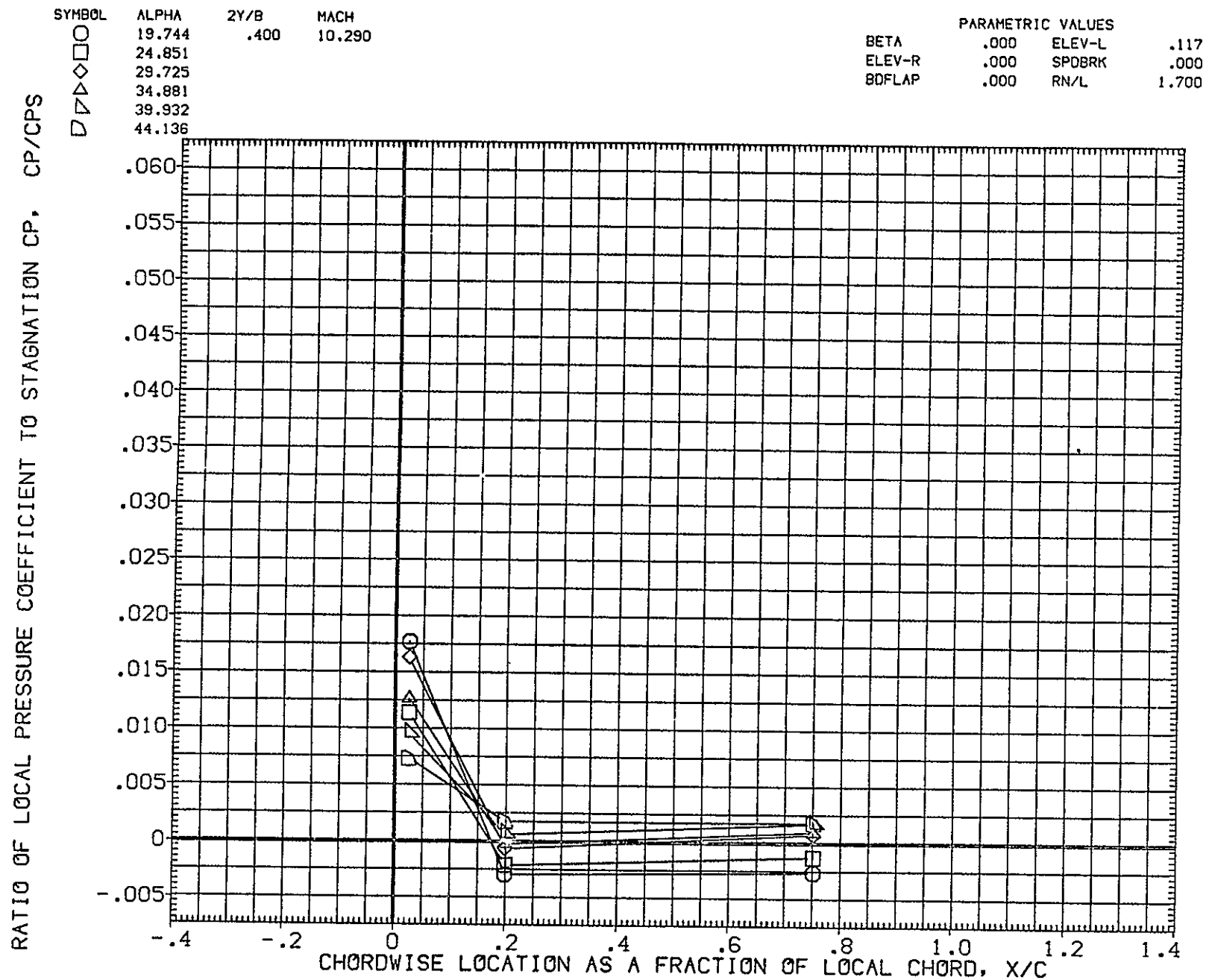


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT)(PEZH20)

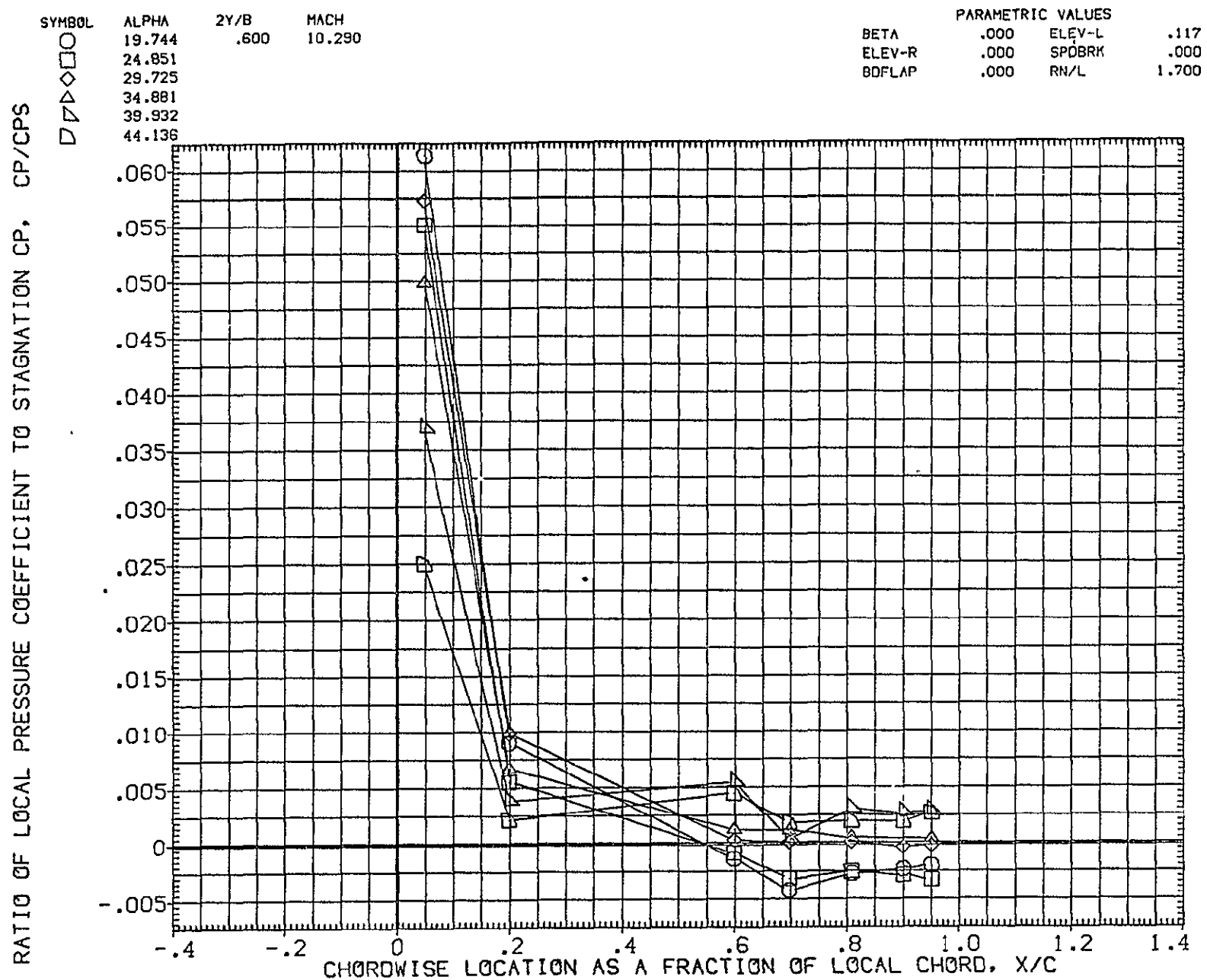


FIG. 8 WING UPPER SURFACE (RT)

ARC 3.5-198 0H38 140C 0RB WING UPPER SURFACE(RT) (PEZH20)

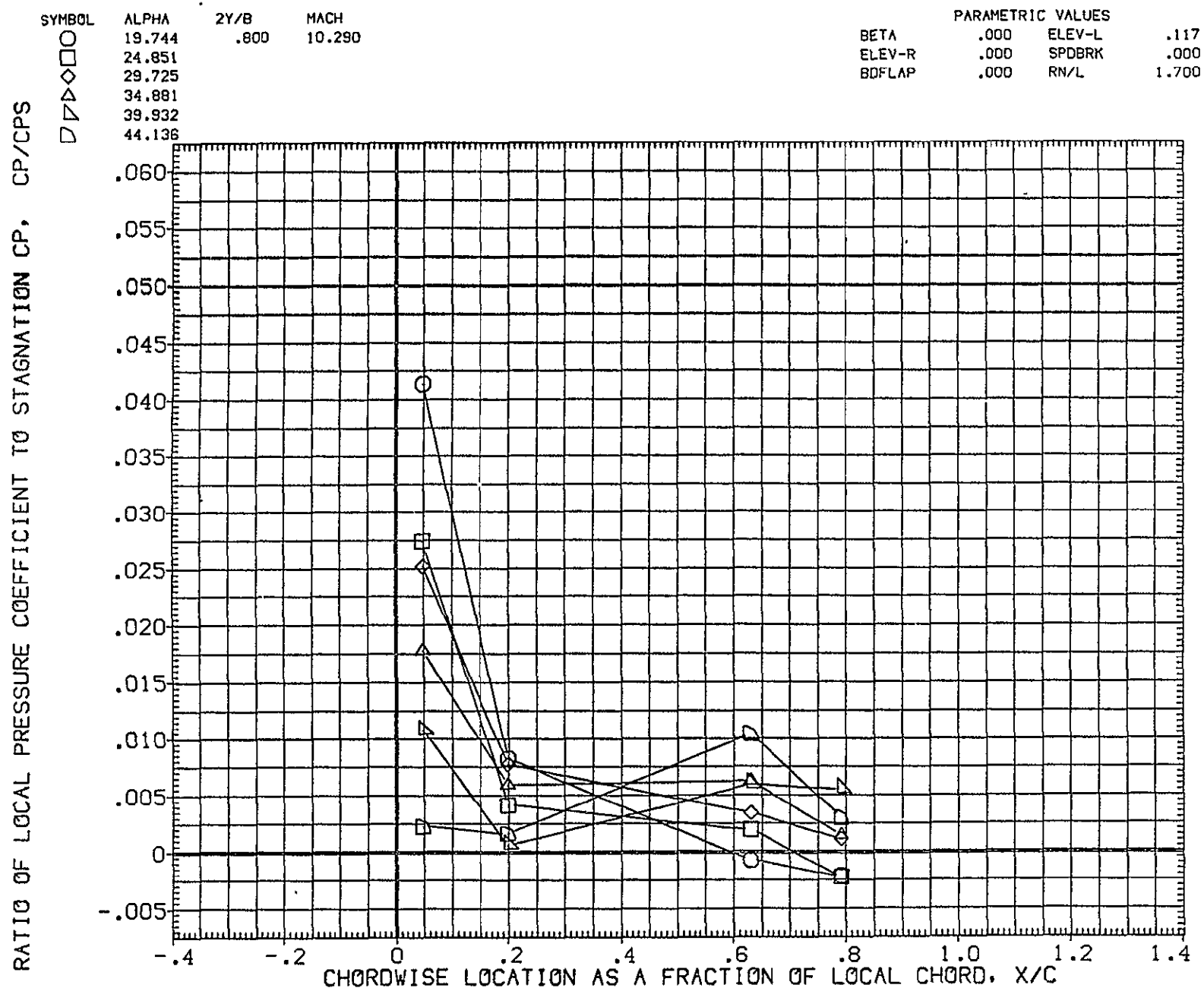


FIG. 8 WING UPPER SURFACE (RT)

# ARC 3.5-198 0H38 140C ORB WING UPPER SURFACE(RT) (PEZH20)

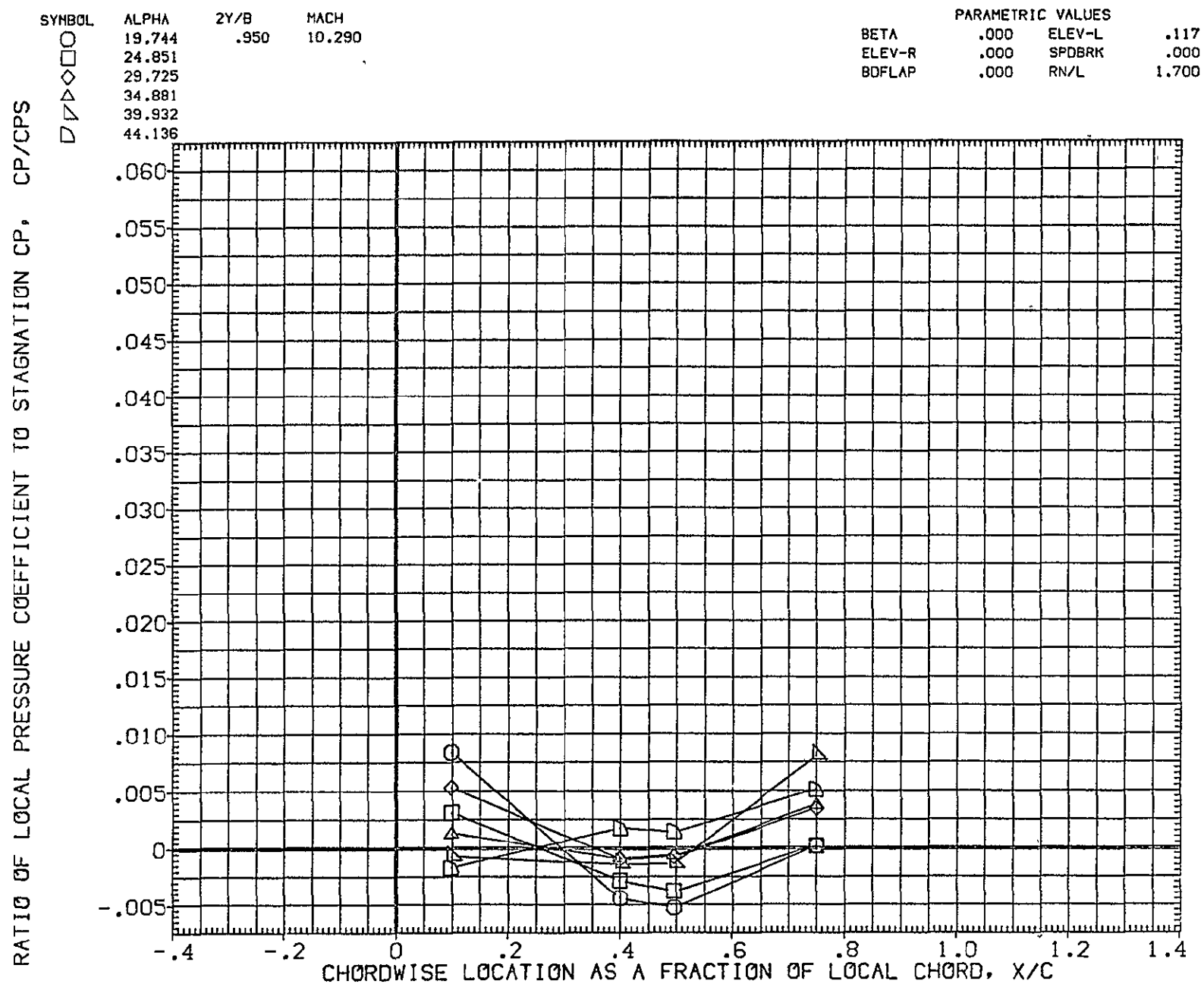


FIG. 8 WING UPPER SURFACE (RT)

SYMBOL

2Y/B

MACH

ALPHA

BETA

PARAMETRIC VALUES

ELEV-L

ELEV-R

SPOBRK

BDFLAP

RN/L

41.533

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

○  
□  
◇  
△  
▽

.301  
.400  
.550  
.600  
.850

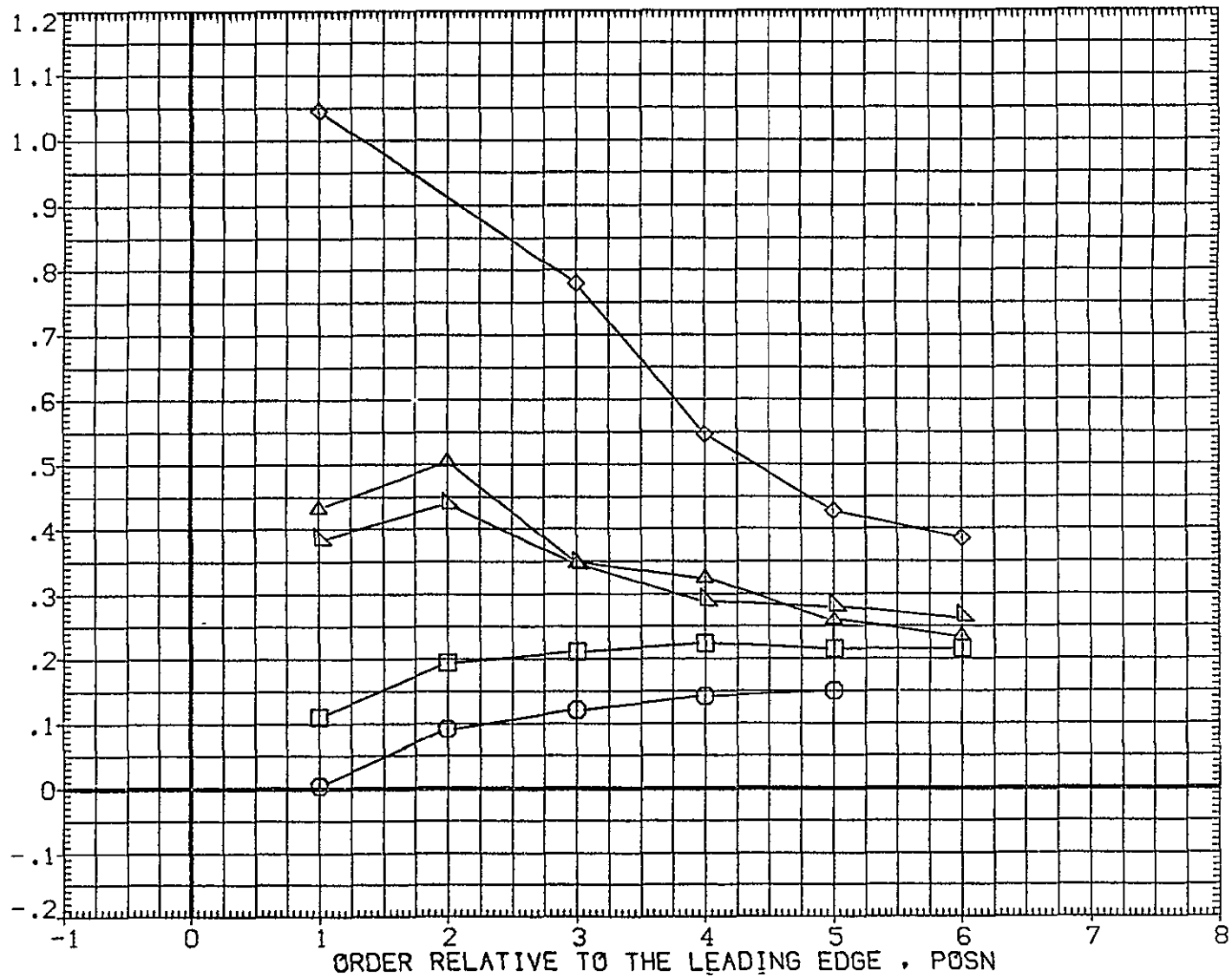


FIG. 9 WING CLUSTERS



SYMBOL	2Y/B	MACH	ALPHA
○	.301	7.320	24.886
□	.400		
△	.550		
▽	.600		
◇	.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

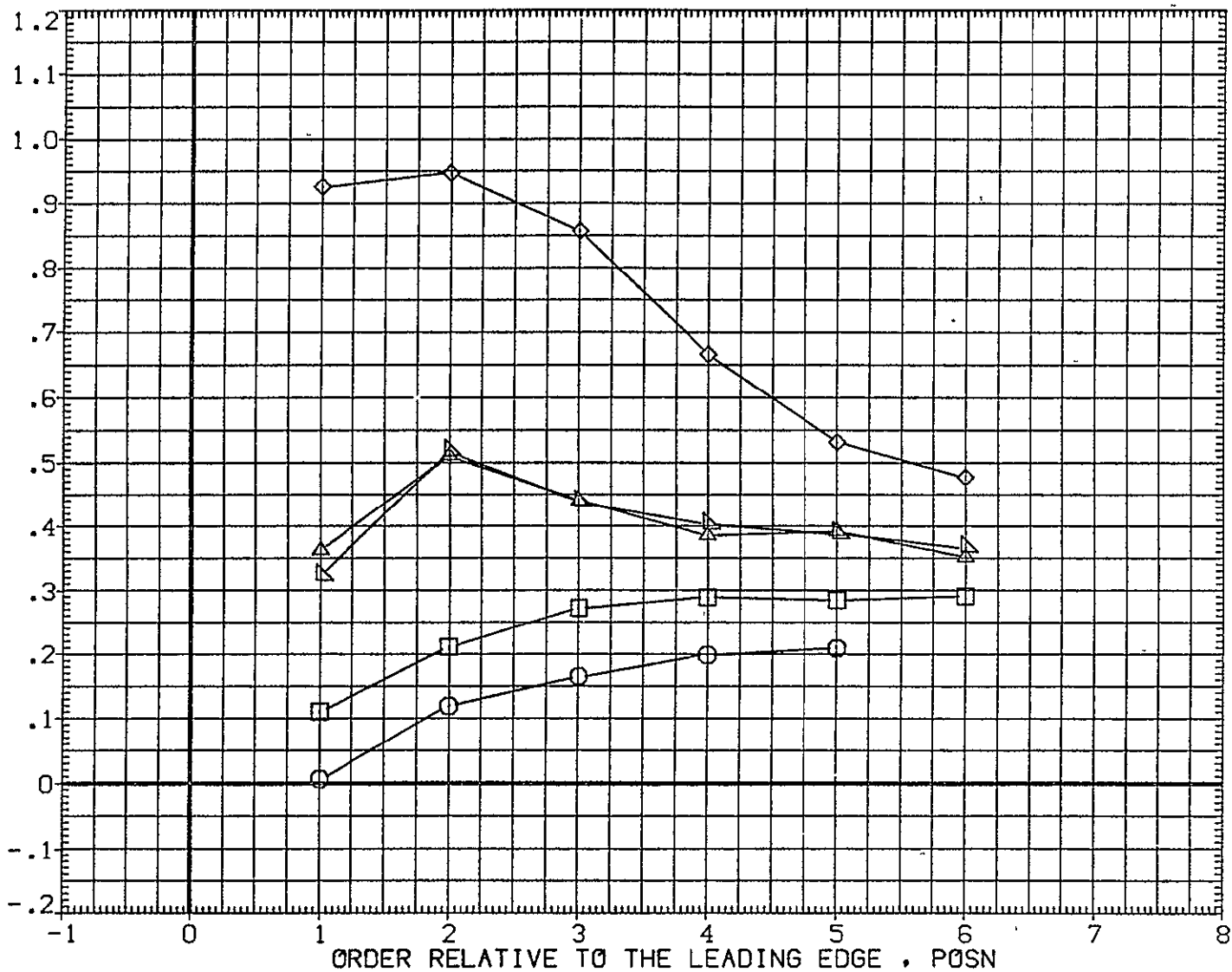


FIG. 9 WING CLUSTERS

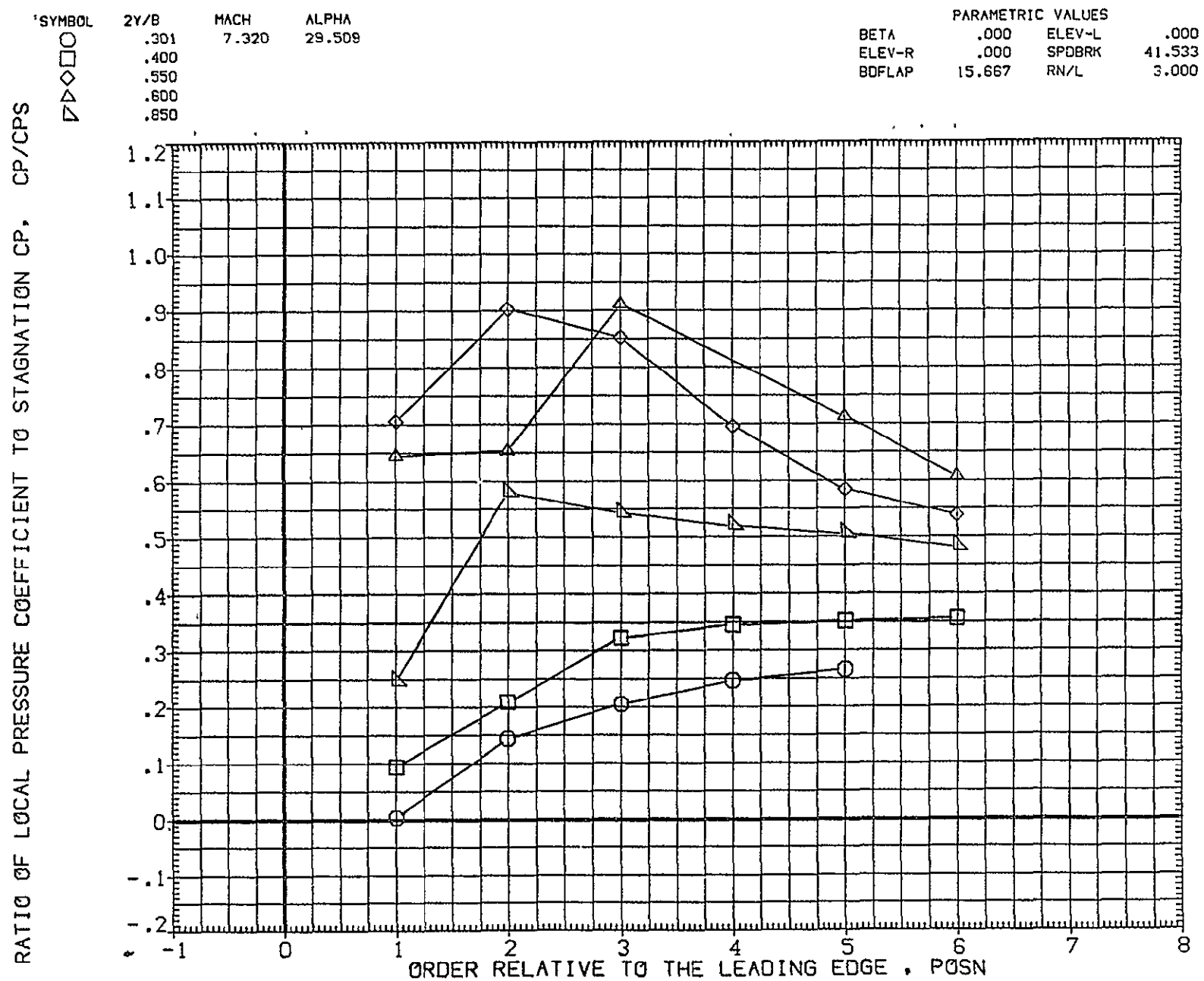


FIG. 9 WING CLUSTERS

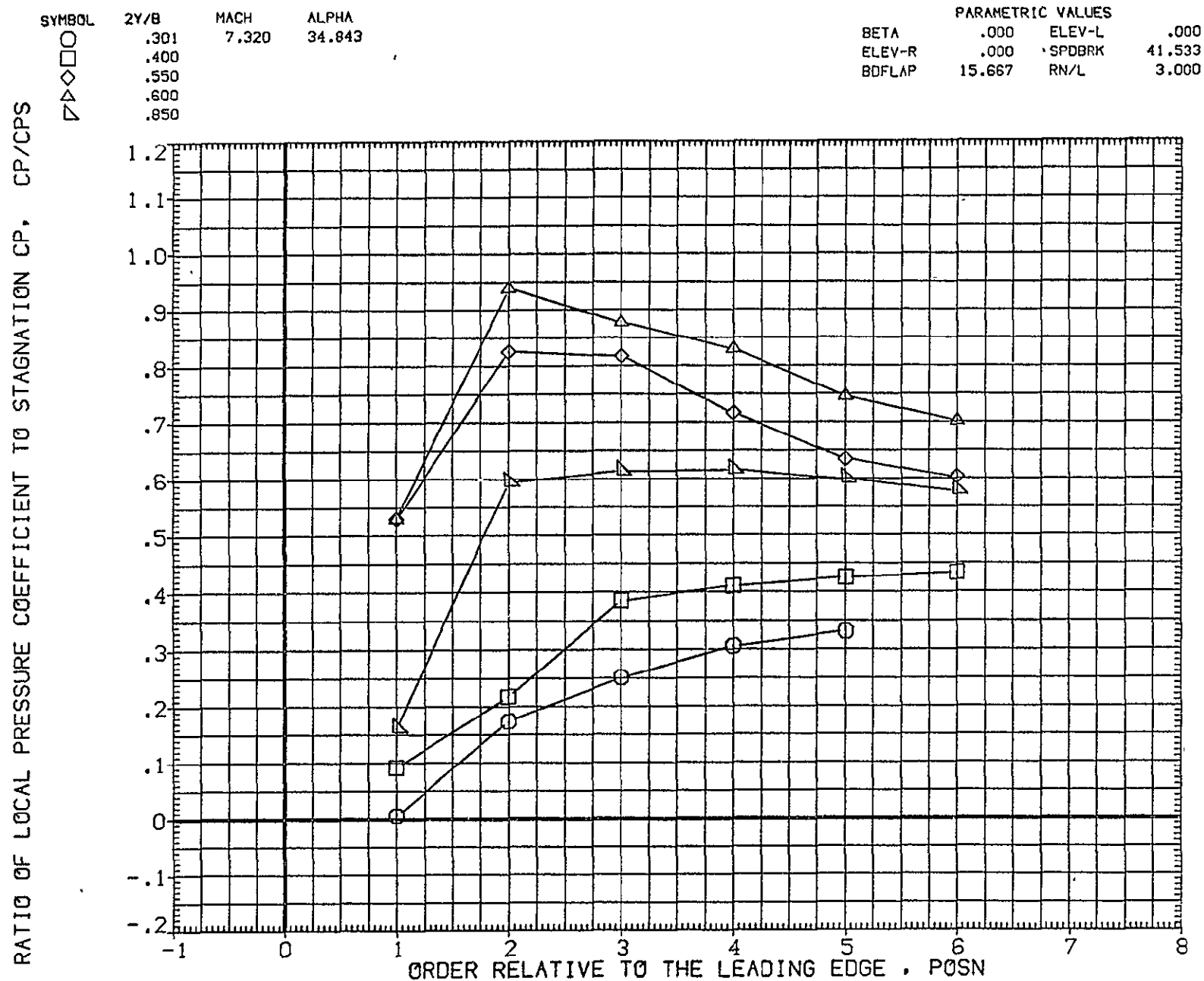


FIG. 9 WING CLUSTERS

SYMBOL  
○  
◇  
△  
□

2Y/B	MACH	ALPHA
.301	7.320	39.947
.400		
.550		
.600		
.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BOFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

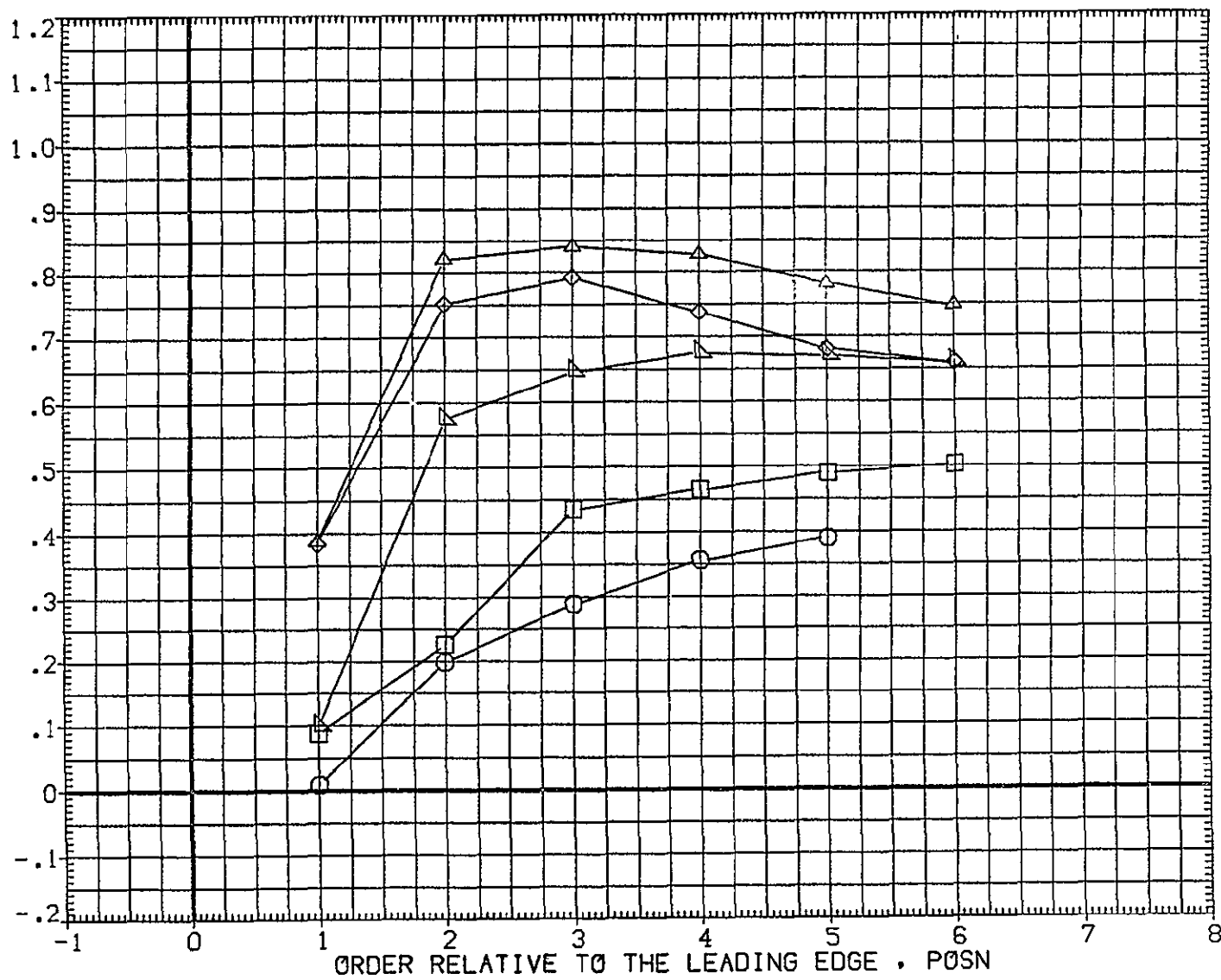


FIG. 9 WING CLUSTERS



FIG. 9 WING CLUSTERS

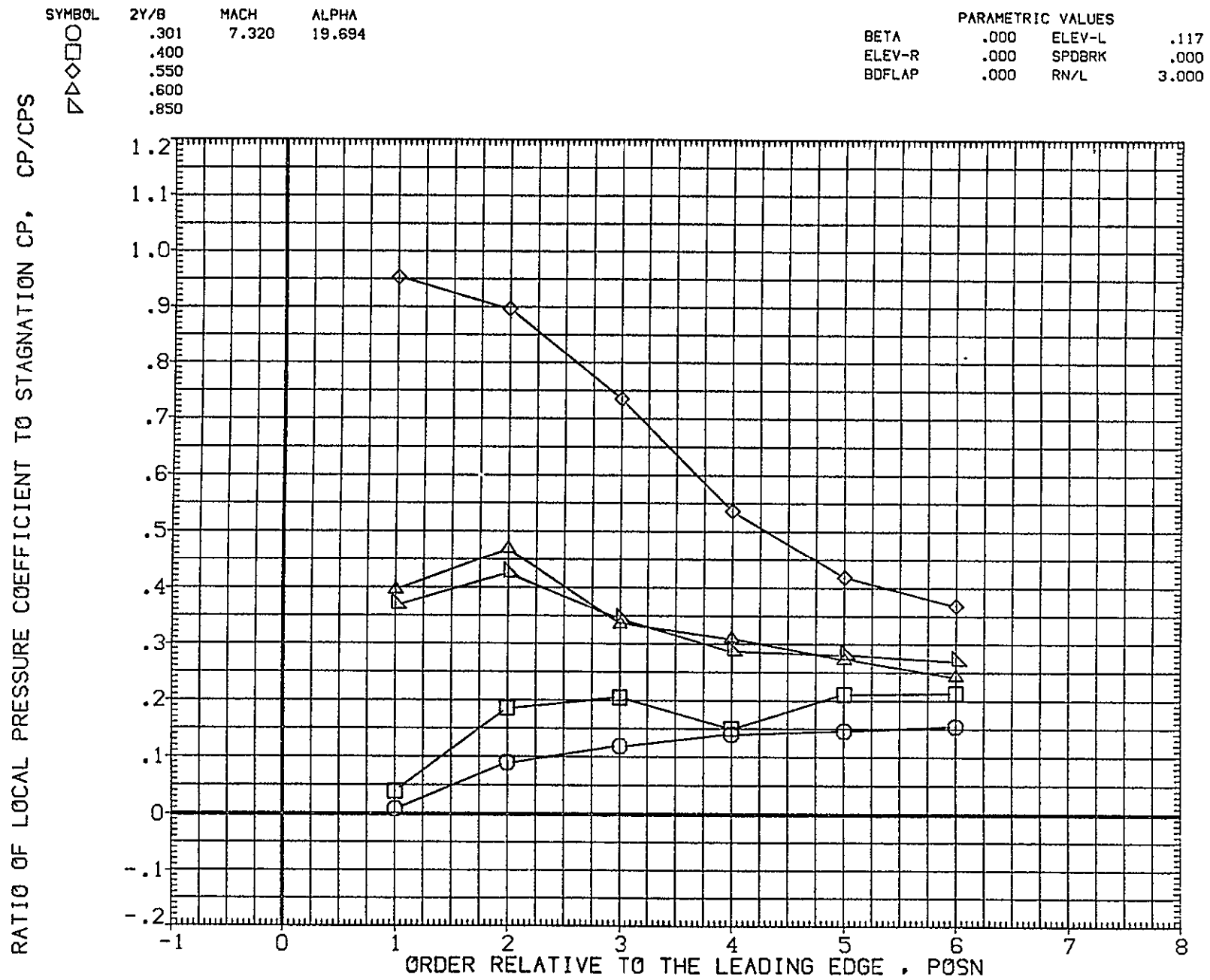


FIG. 9 WING CLUSTERS

SYMBOL	2Y/B	MACH	ALPHA
○	.301	7.320	24.885
□	.400		
◇	.550		
△	.600		
▽	.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

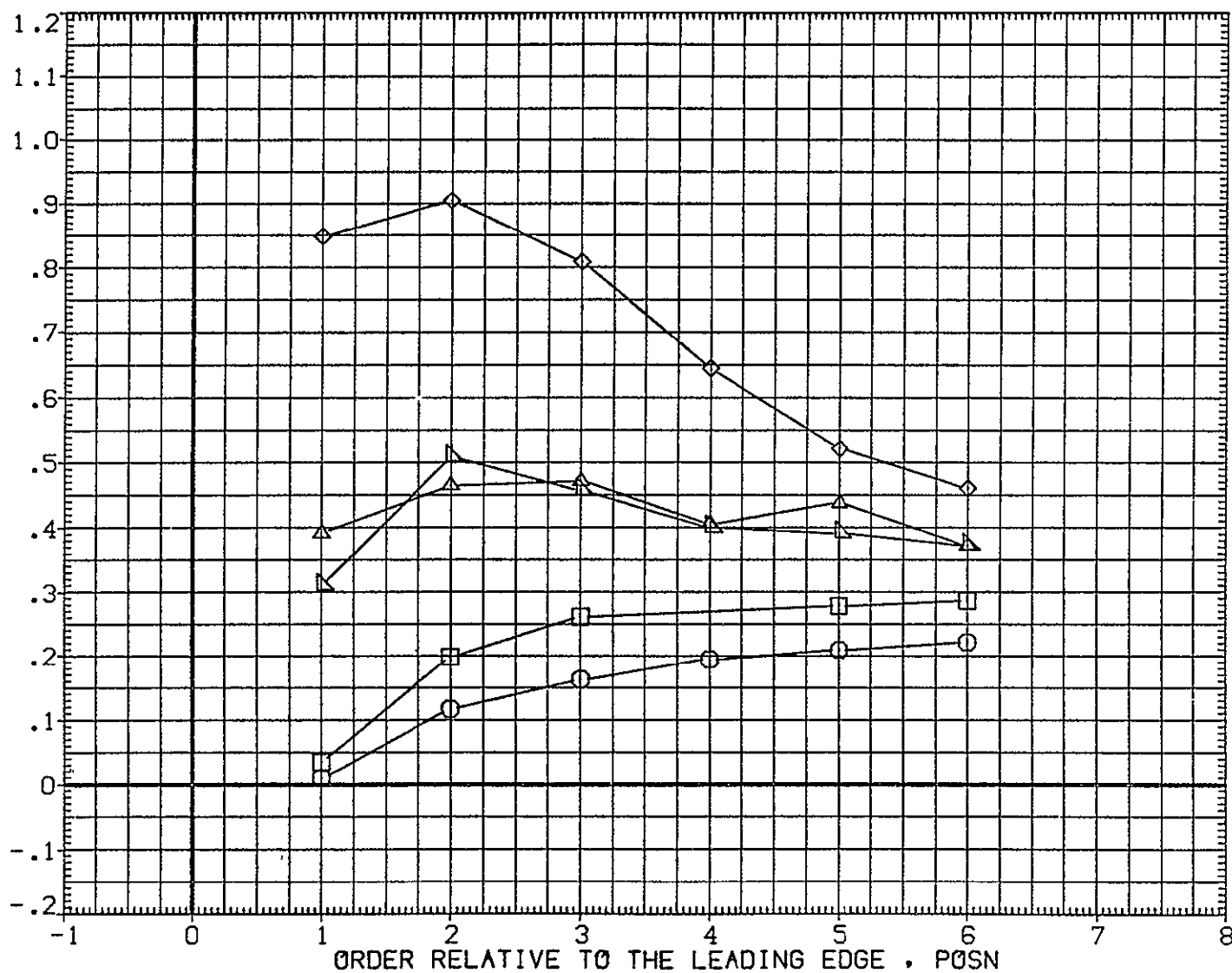


FIG. 9 WING CLUSTERS

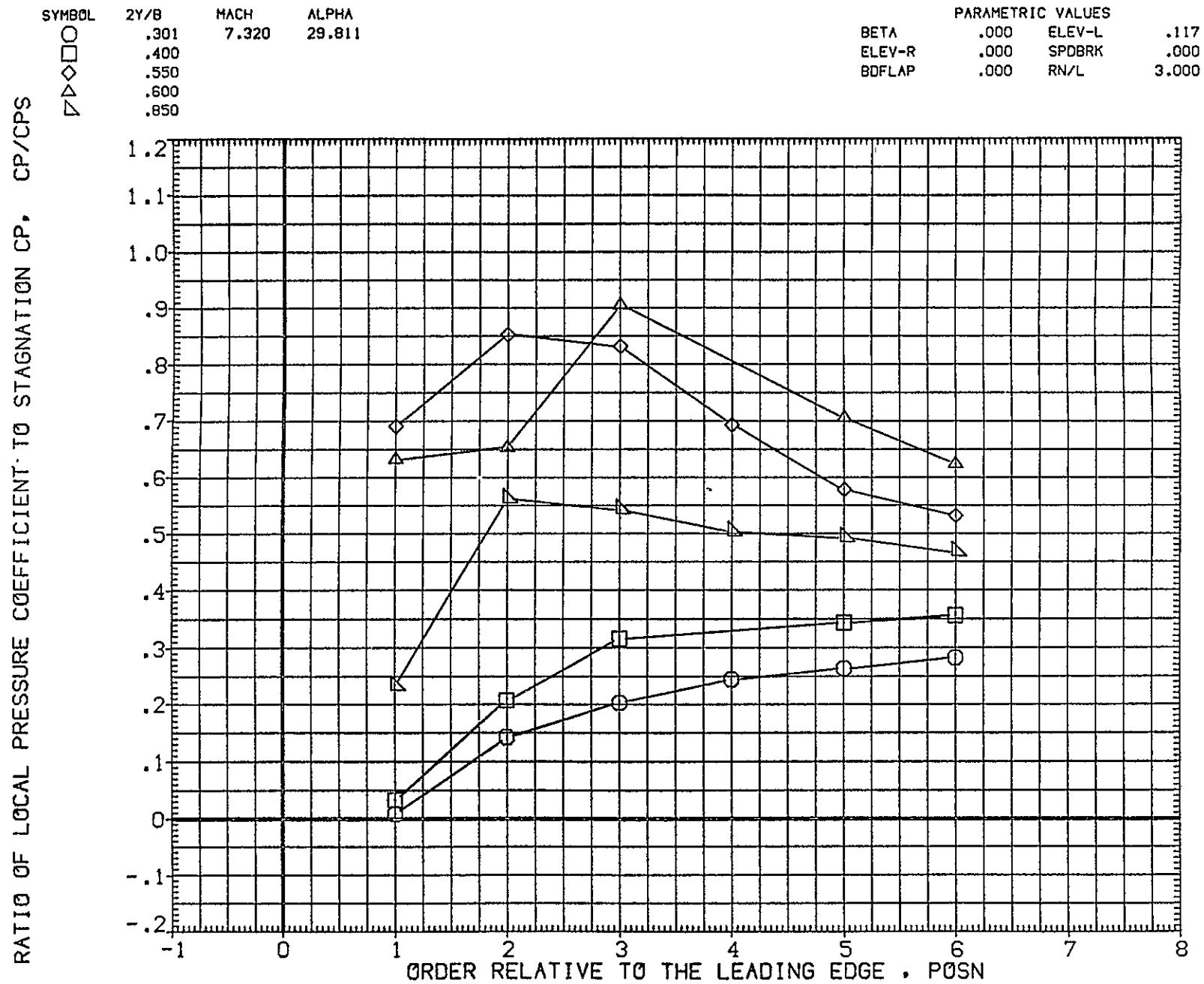


FIG. 9 WING CLUSTERS



ARC 3.5-198 OH38 140C ORB WING CLUSTERS

(PEZD03)

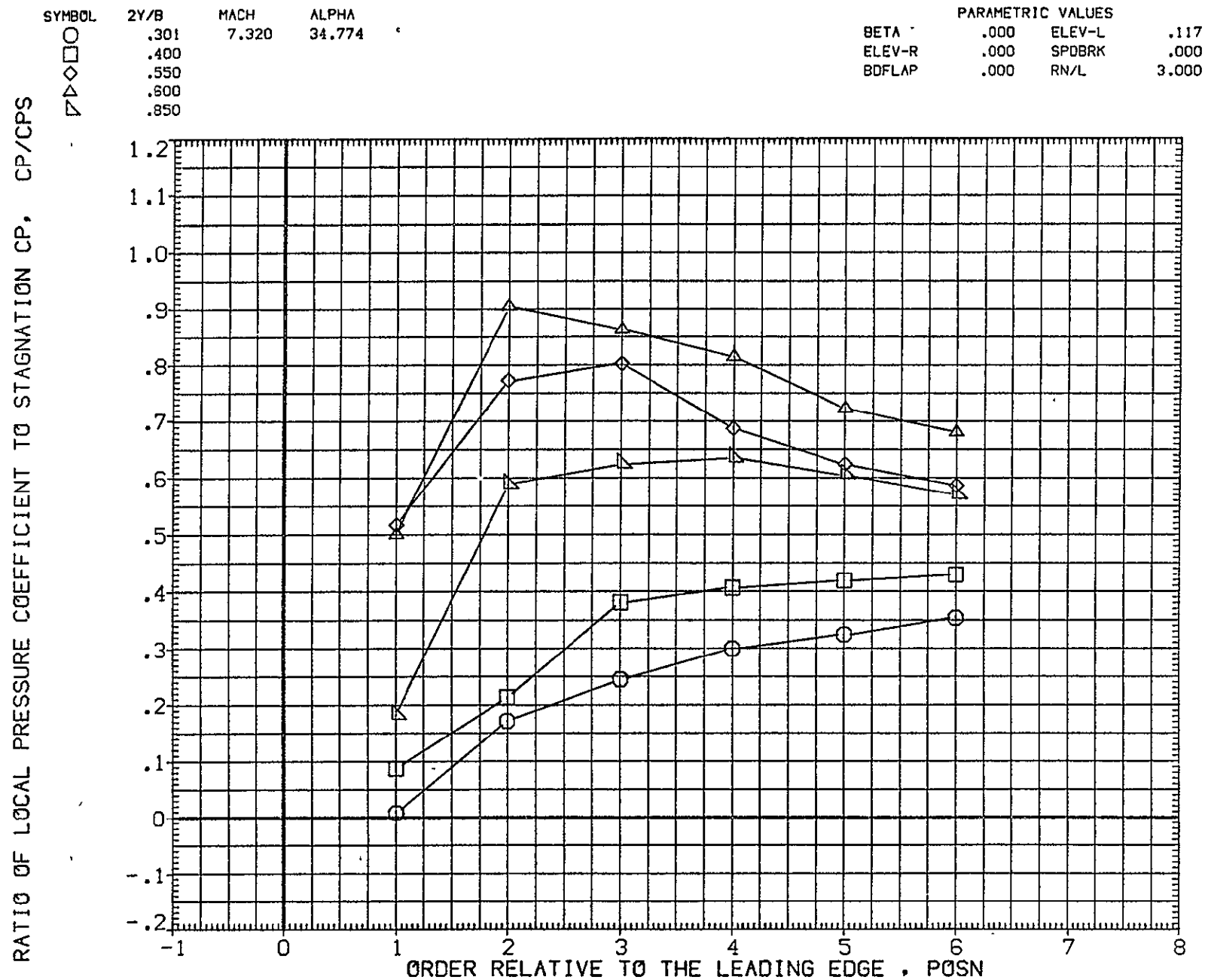


FIG. 9 WING CLUSTERS



FIG. 9 WING CLUSTERS

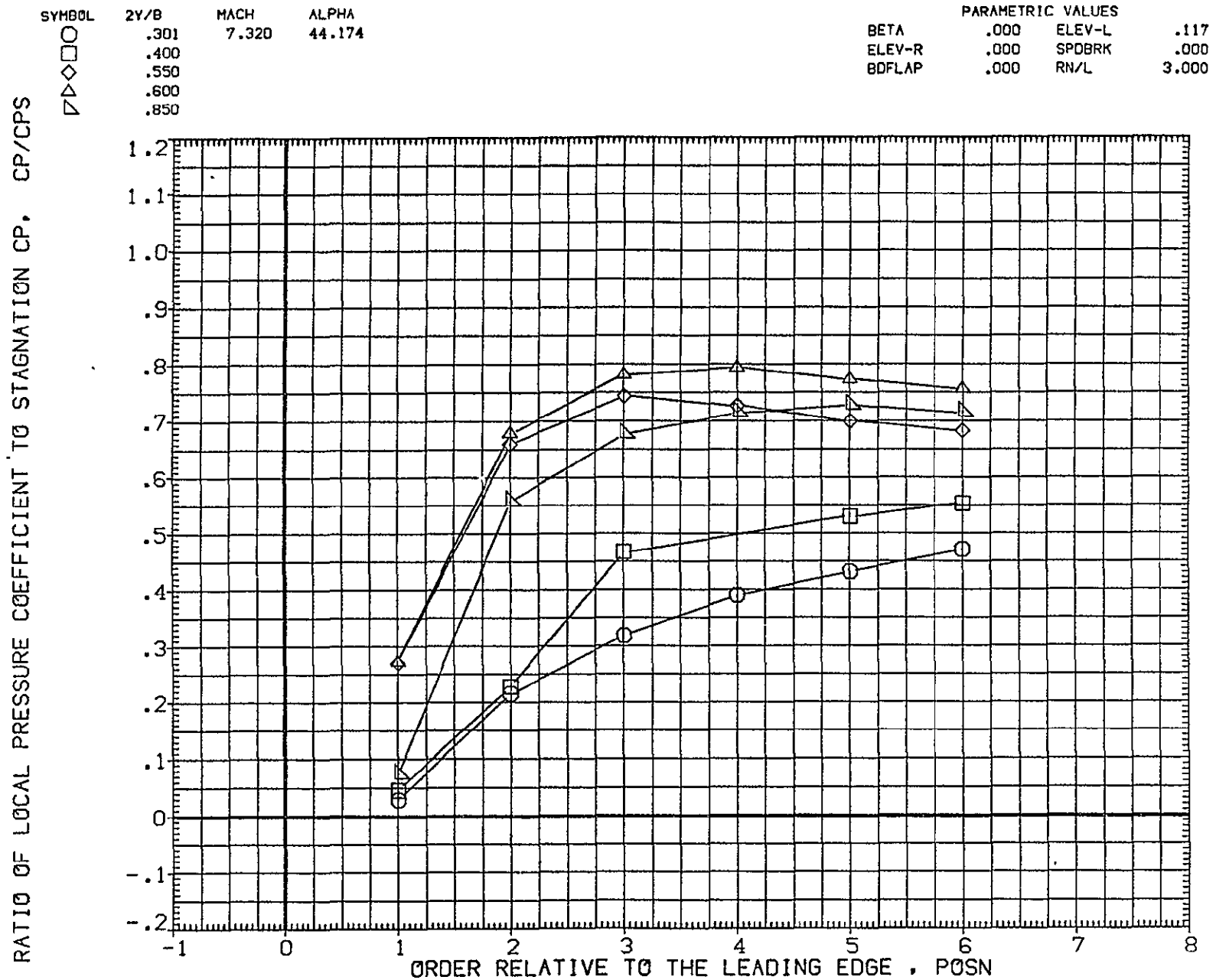


FIG. 9 WING CLUSTERS

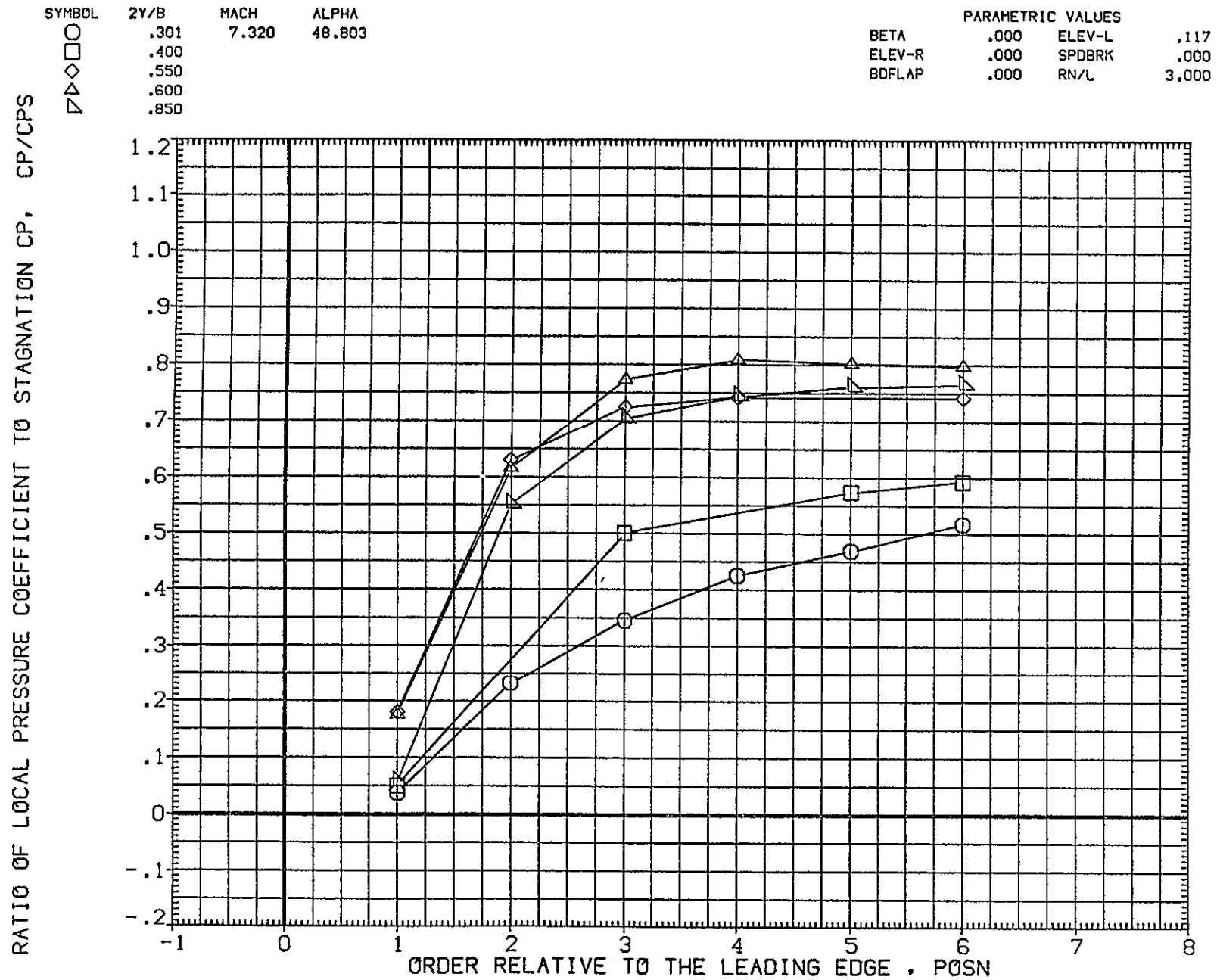


FIG. 9 WING CLUSTERS

SYMBOL  
○ □ ◇ △ ▽

2Y/B	MACH	ALPHA
.301	7.320	19.748
.400		
.550		
.600		
.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

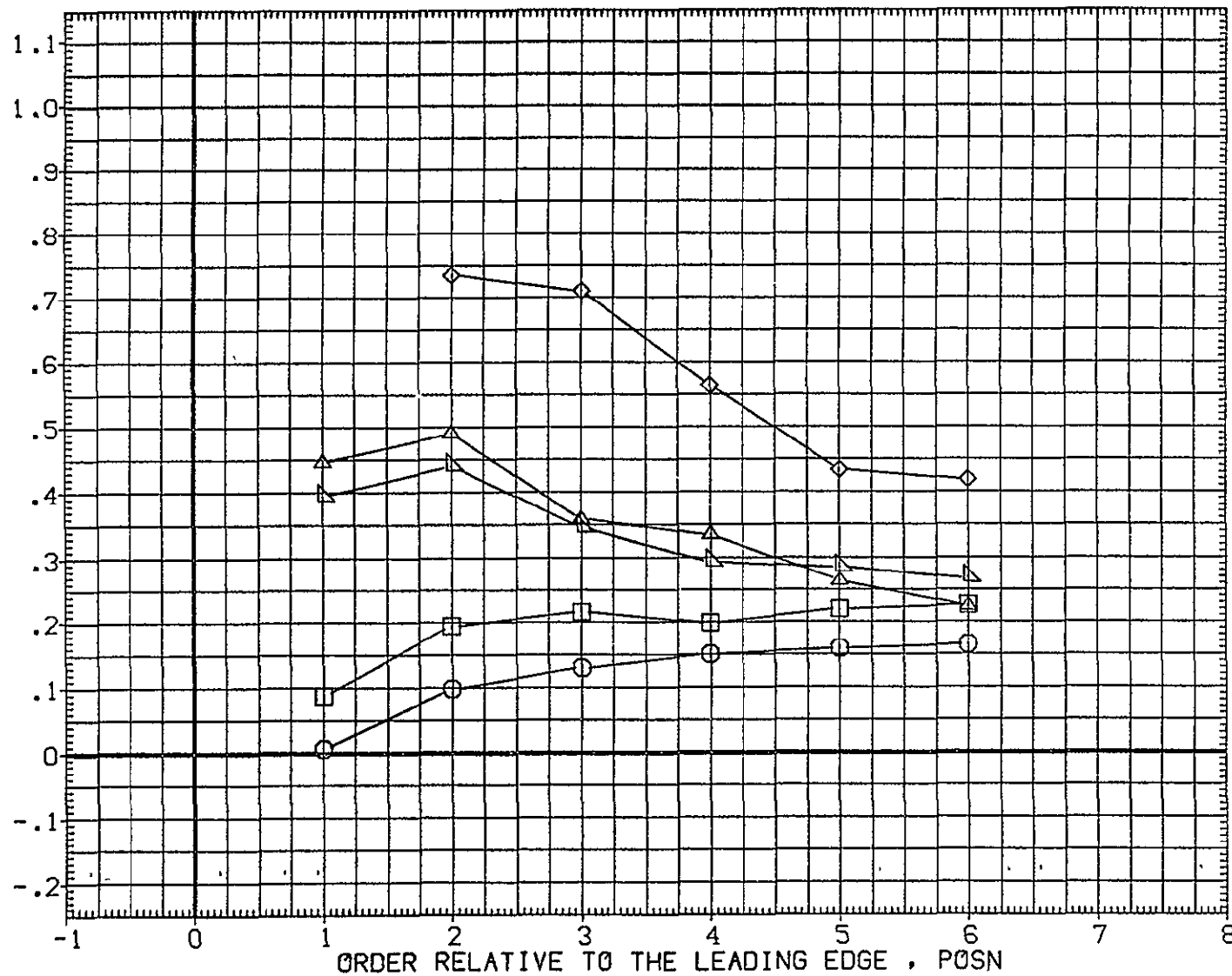


FIG. 9 WING CLUSTERS

SYMBOL

2Y/B

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

○  
 □  
 △  
 ▽  
 ◇

.301  
 .400  
 .550  
 .600  
 .850

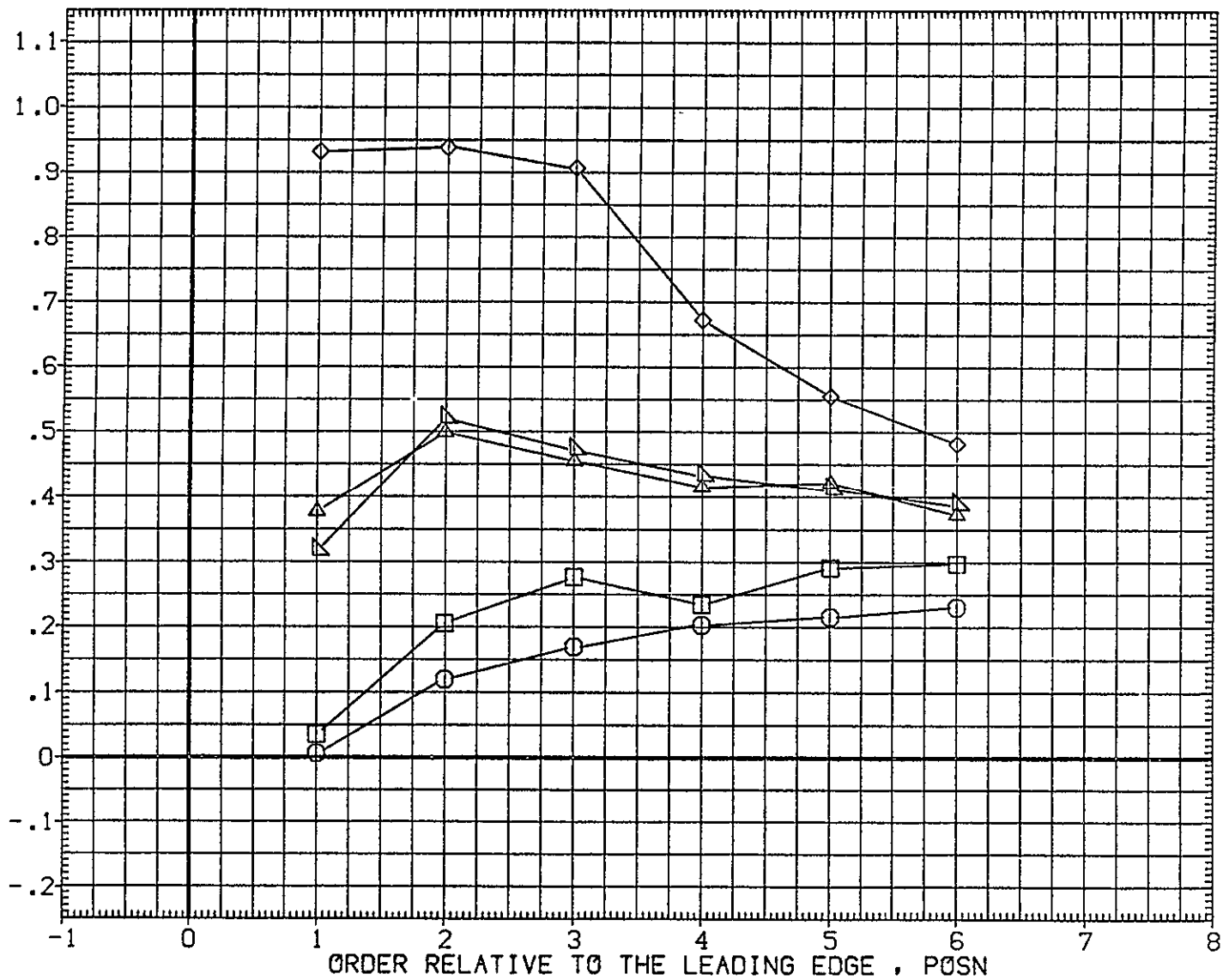


FIG. 9 WING CLUSTERS

SYMBOL  
 ○ □ ◇ △ ▽

2Y/B    MACH    ALPHA  
 .301    7.320    29.613  
 .400  
 .550  
 .600  
 .850

PARAMETRIC VALUES  
 BETA    .000    ELEV-L    .117  
 ELEV-R    .000    SPDBRK    .000  
 BDFLAP    .000    RN/L    6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

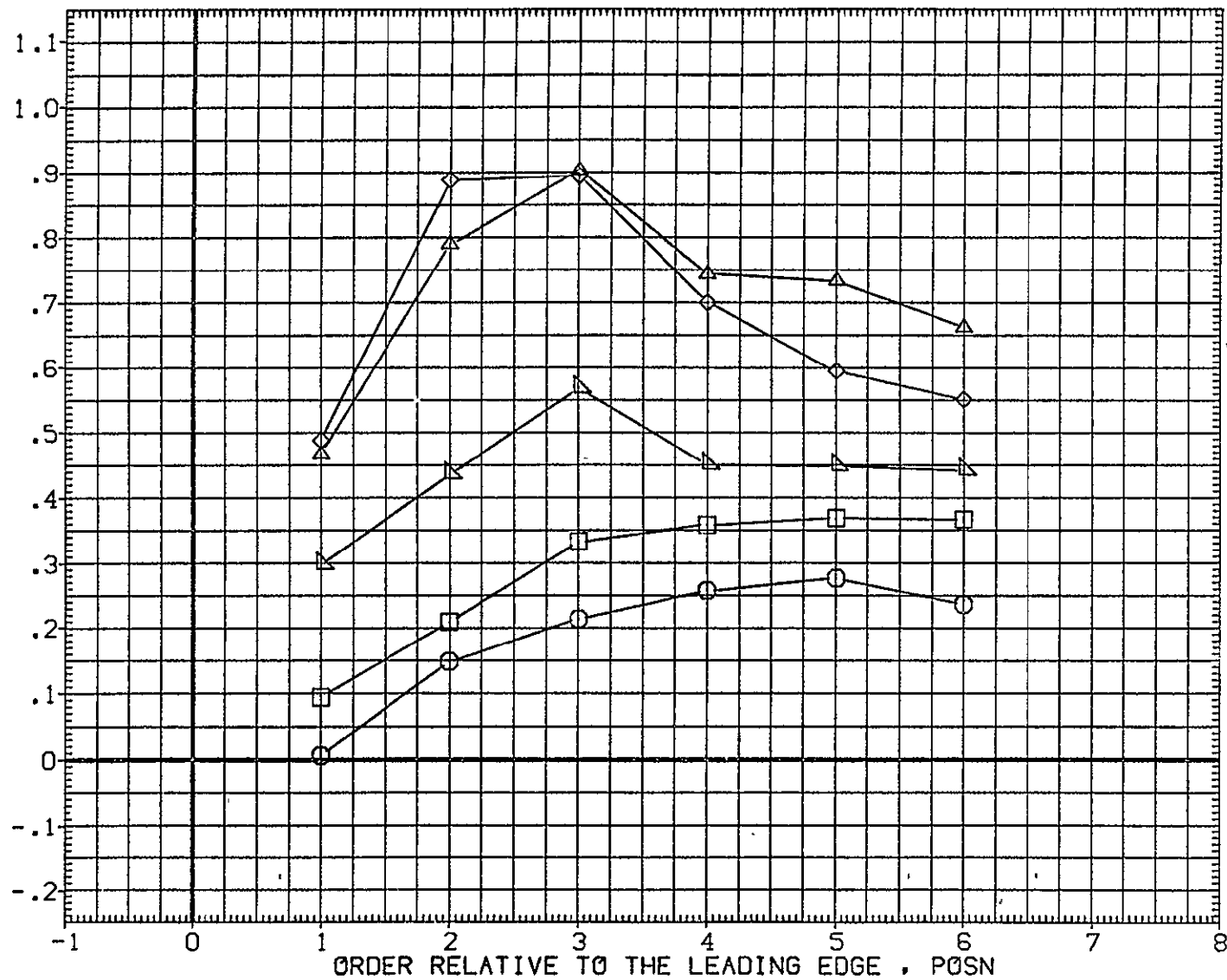


FIG. 9 WING CLUSTERS



FIG. 9 WING CLUSTERS



SYMBOL  
 ○  
 □  
 ◇  
 ▲  
 ▼

2Y/B    MACH    ALPHA °  
 .301    7.320    39.926  
 .400  
 .550  
 .600  
 .850

PARAMETRIC VALUES  
 BETA    .000    ELEV-L    .117  
 ELEV-R    .000    SPDBRK    .000  
 BDFLAP    .000    RN/L    6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

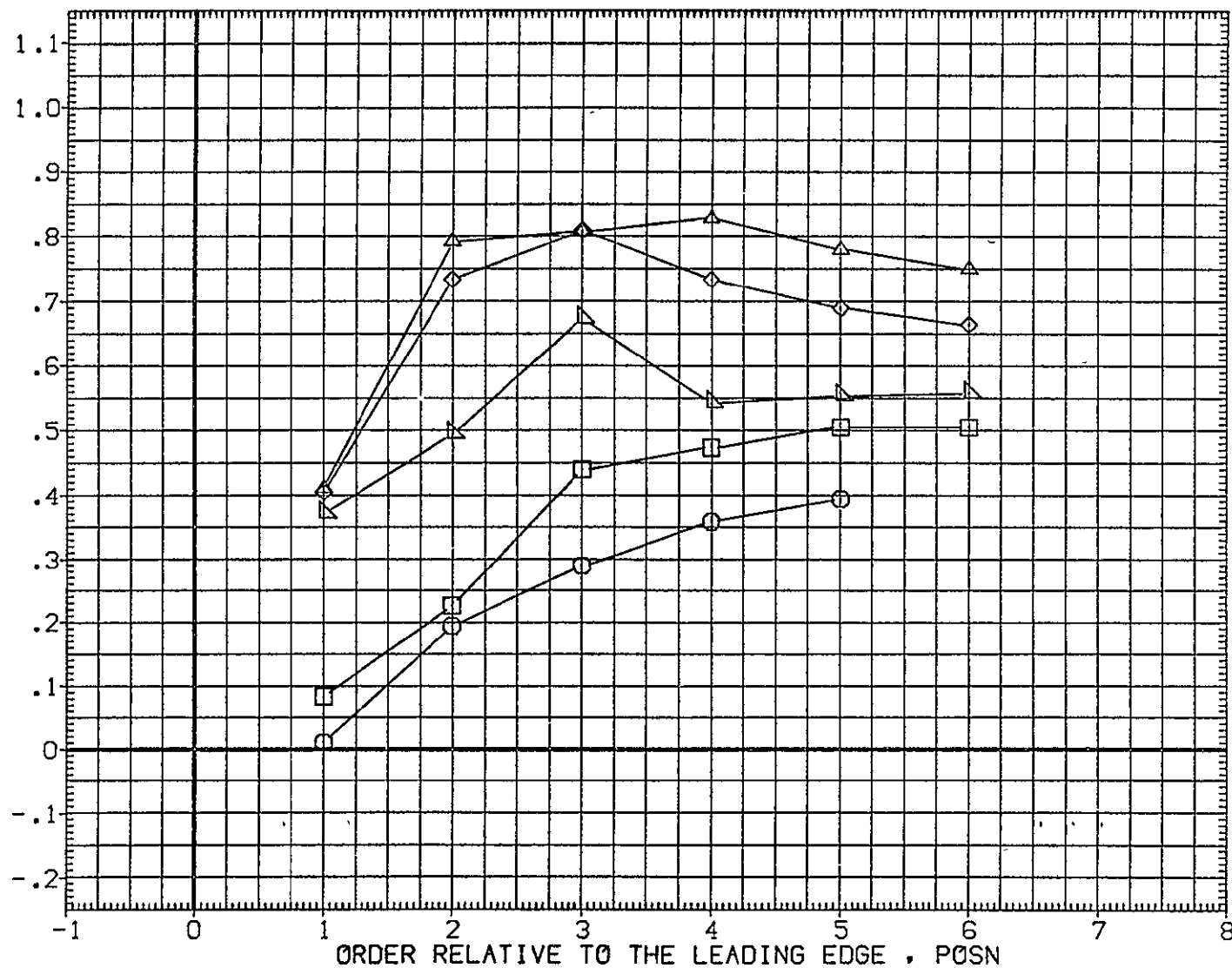


FIG. 9 WING CLUSTERS

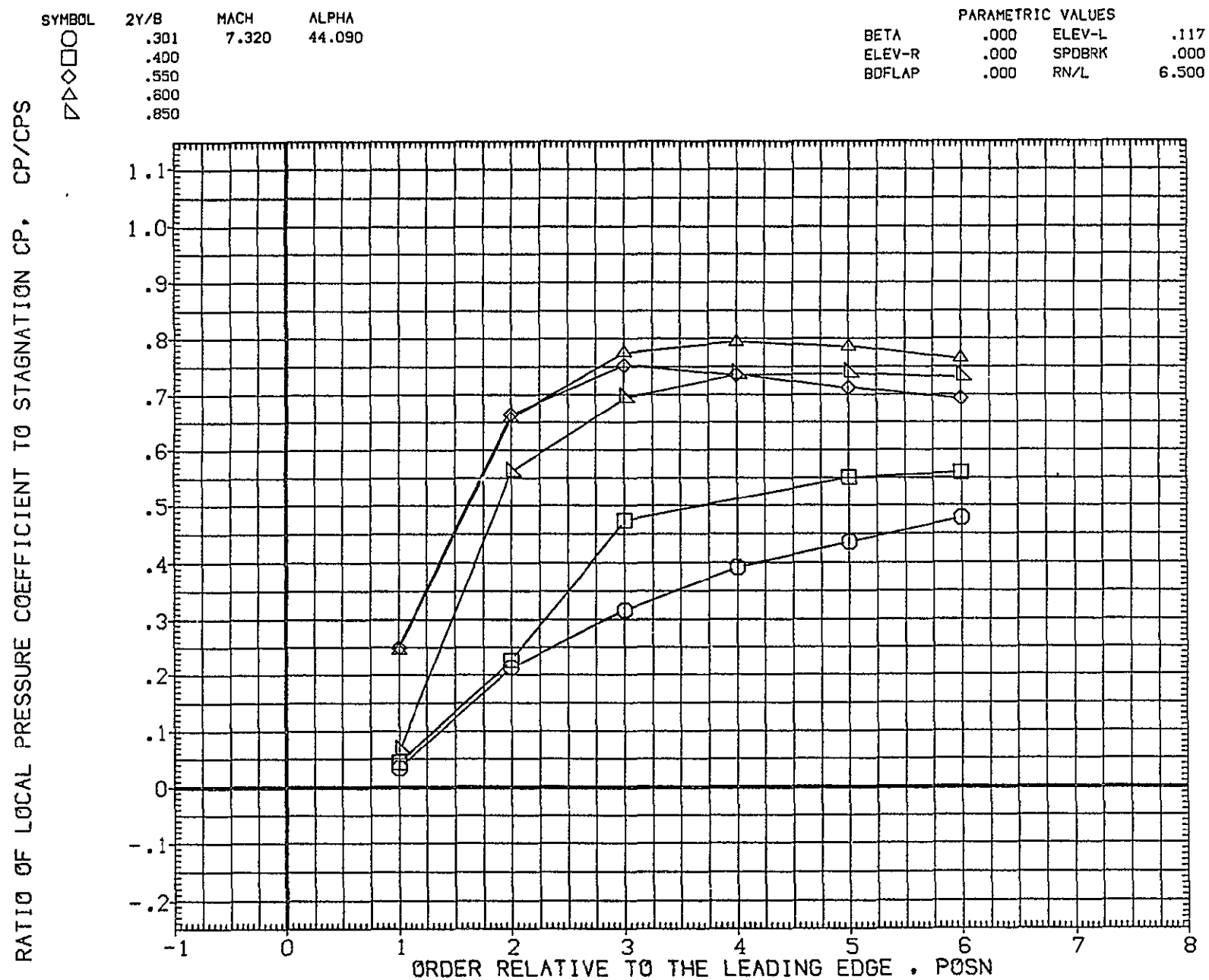


FIG. 9 WING CLUSTERS

ARC 3.5-198 0H38 140C 0RB WING CLUSTERS

(PEZD05)

SYMBOL  
○  
◇  
△  
▽  
□

2Y/B  
.301  
.400  
.550  
.600  
.850

MACH  
7.320

ALPHA  
19.496

PARAMETRIC VALUES

BETA .000 ELEV-L 5.050  
ELEV-R 4.100 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

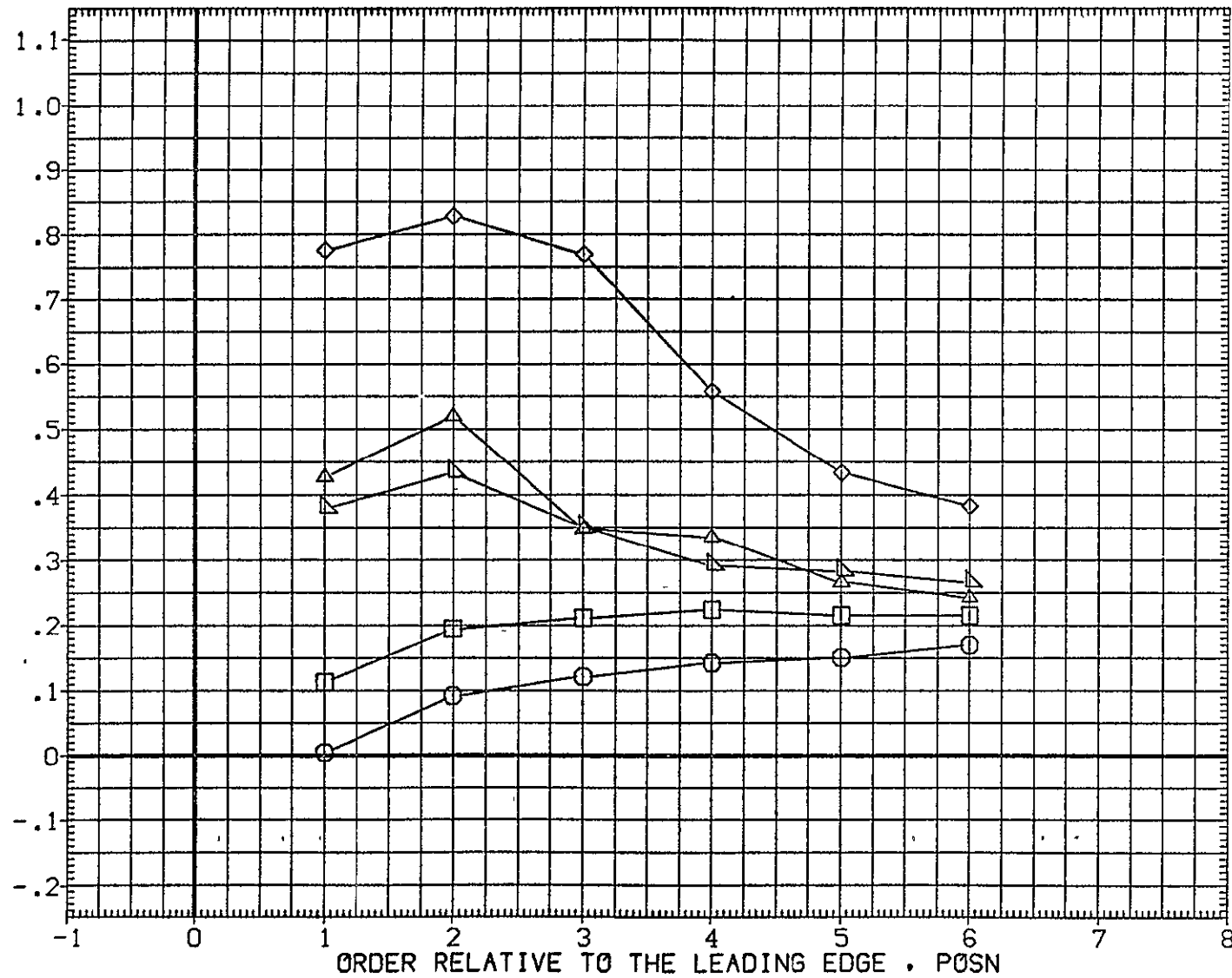


FIG. 9 WING CLUSTERS

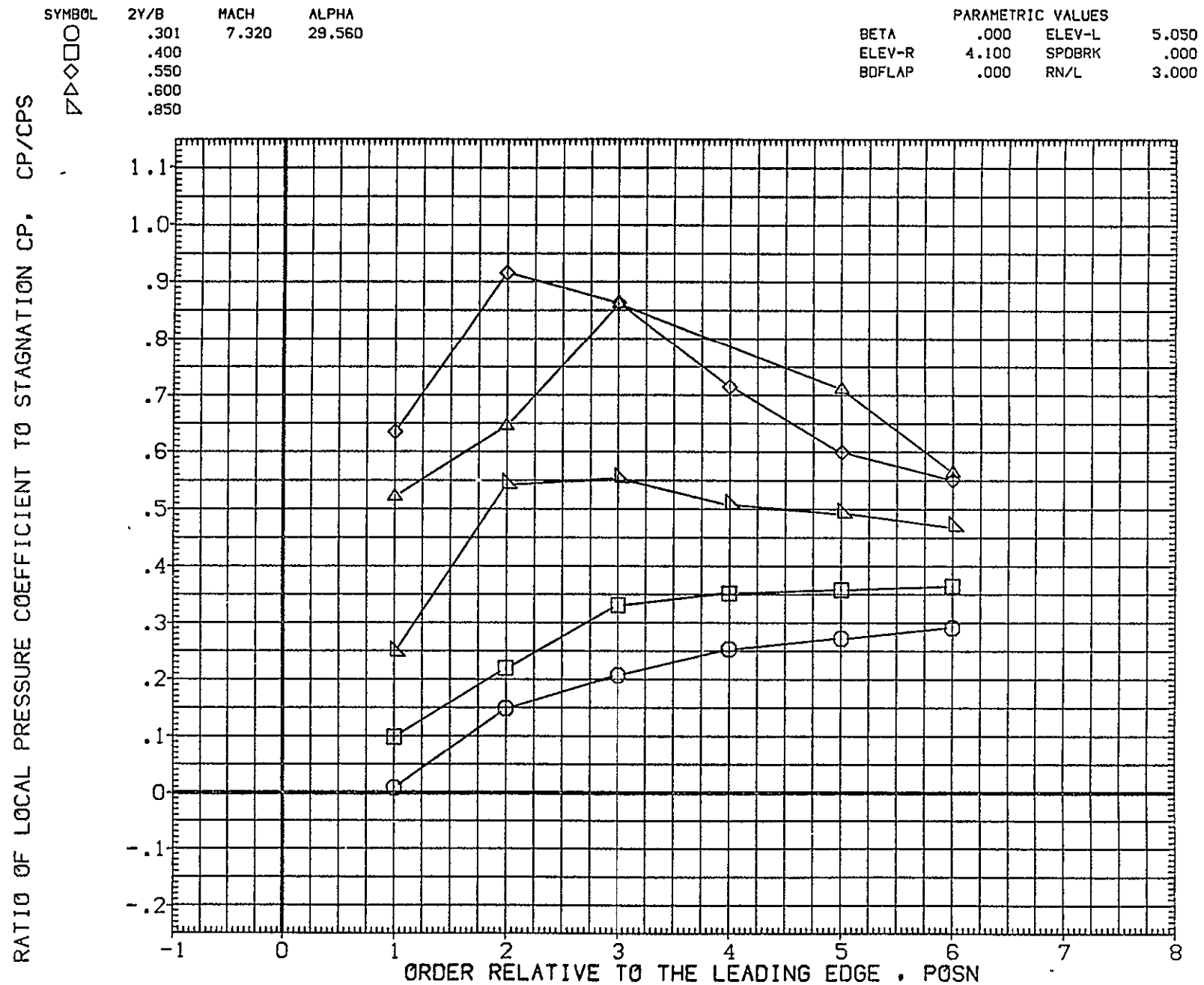


FIG. 9 WING CLUSTERS

SYMBOL

○  
 ◇  
 △  
 ▽  
 □

2Y/B

.301  
 .400  
 .550  
 .600  
 .850

MACH

7.320

ALPHA

32.095

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

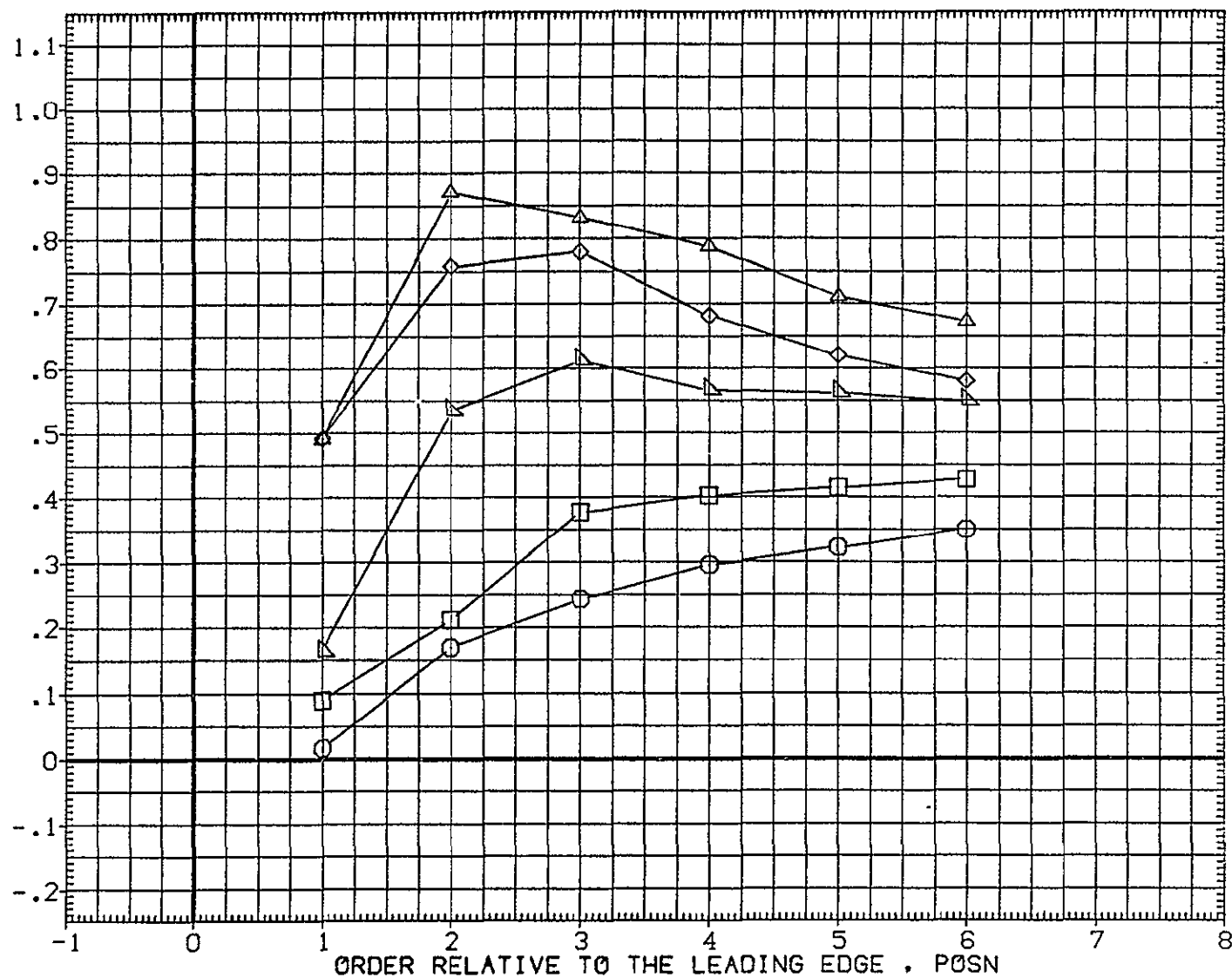


FIG. 9 WING CLUSTERS

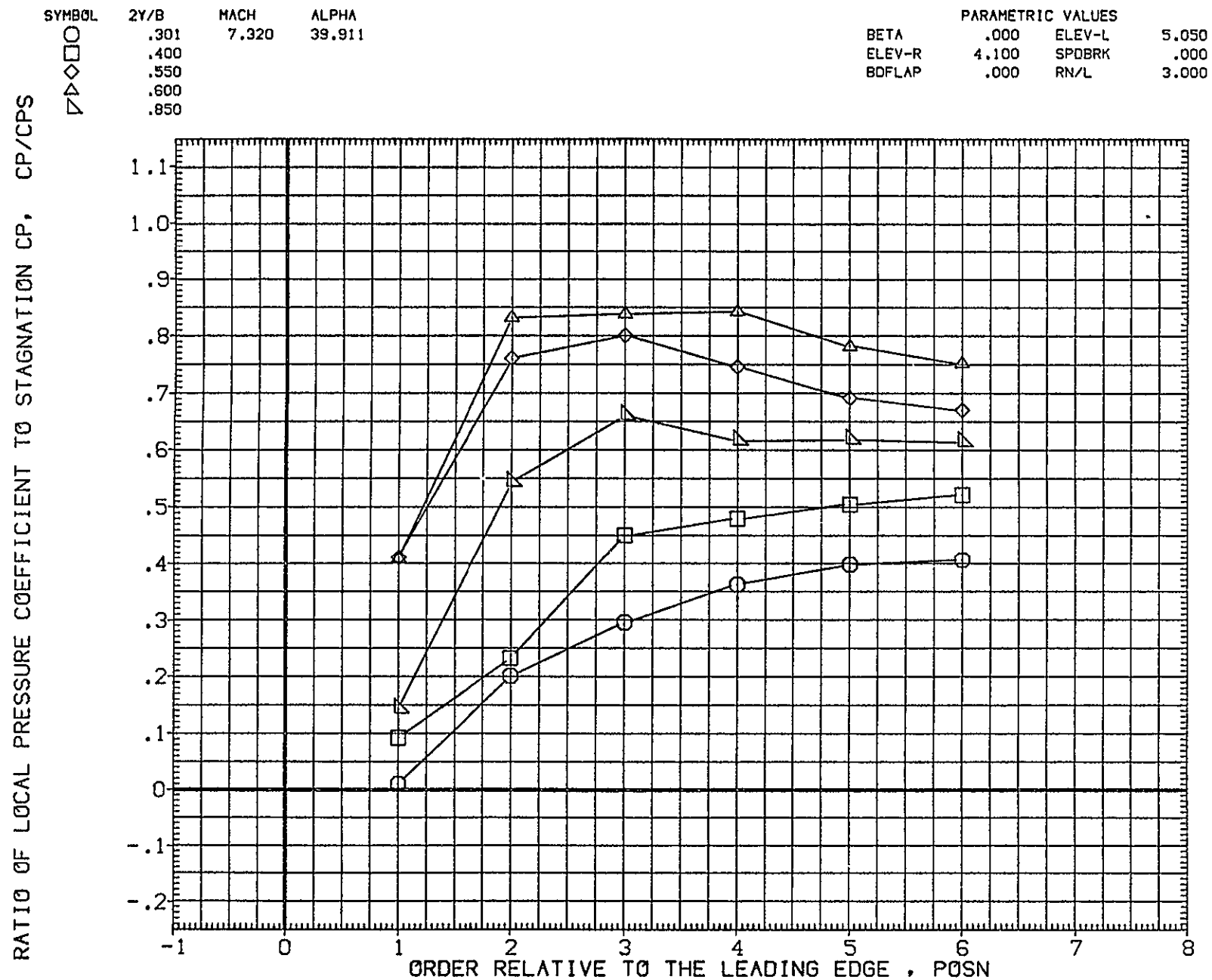


FIG. 9 WING CLUSTERS

ARC 3.5-198 OH38 140C ORB WING CLUSTERS

(PEZD05)

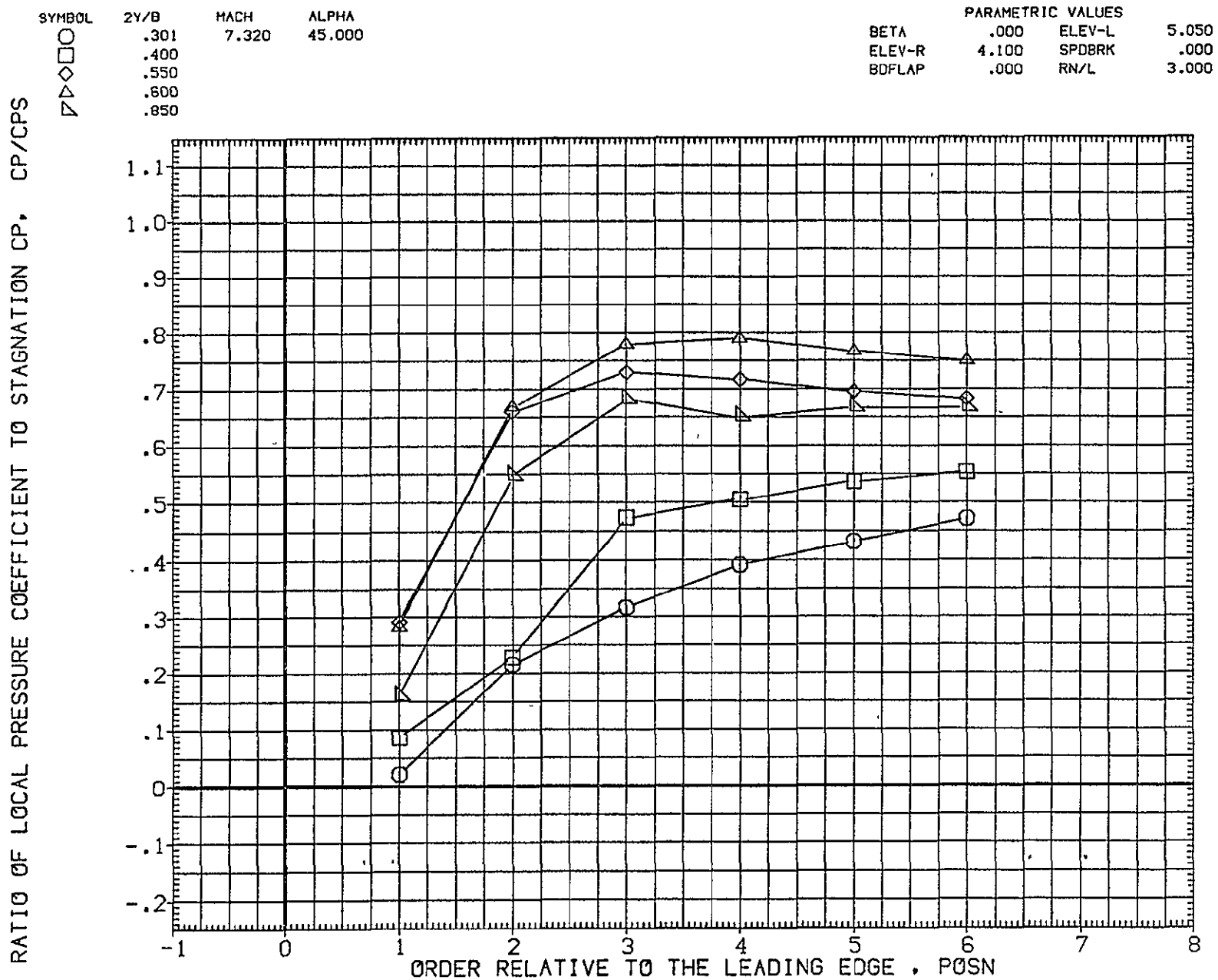


FIG. 9 WING CLUSTERS

SYMBOL	2Y/B	MACH	ALPHA
○	.301	7.320	50.000
□	.400		
◇	.550		
△	.600		
▽	.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

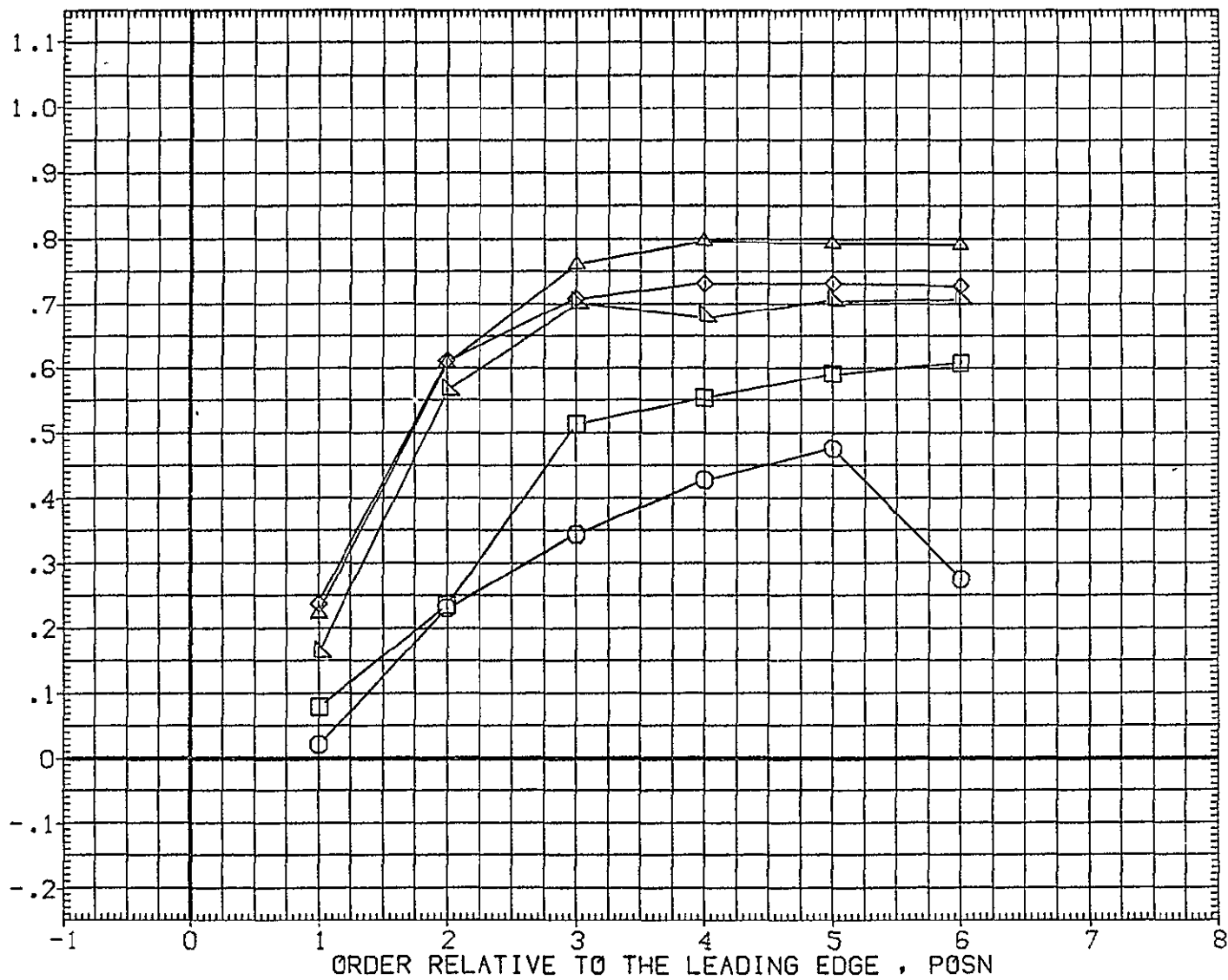


FIG. 9 WING CLUSTERS



# ARC 3.5-198 0H38 140C 0RB WING CLUSTERS

(PEZD07)

SYMBOL  
○  
□  
◇  
△  
▽

2Y/B  
.301  
.400  
.550  
.600  
.850

MACH  
7.320

ALPHA  
19.132

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

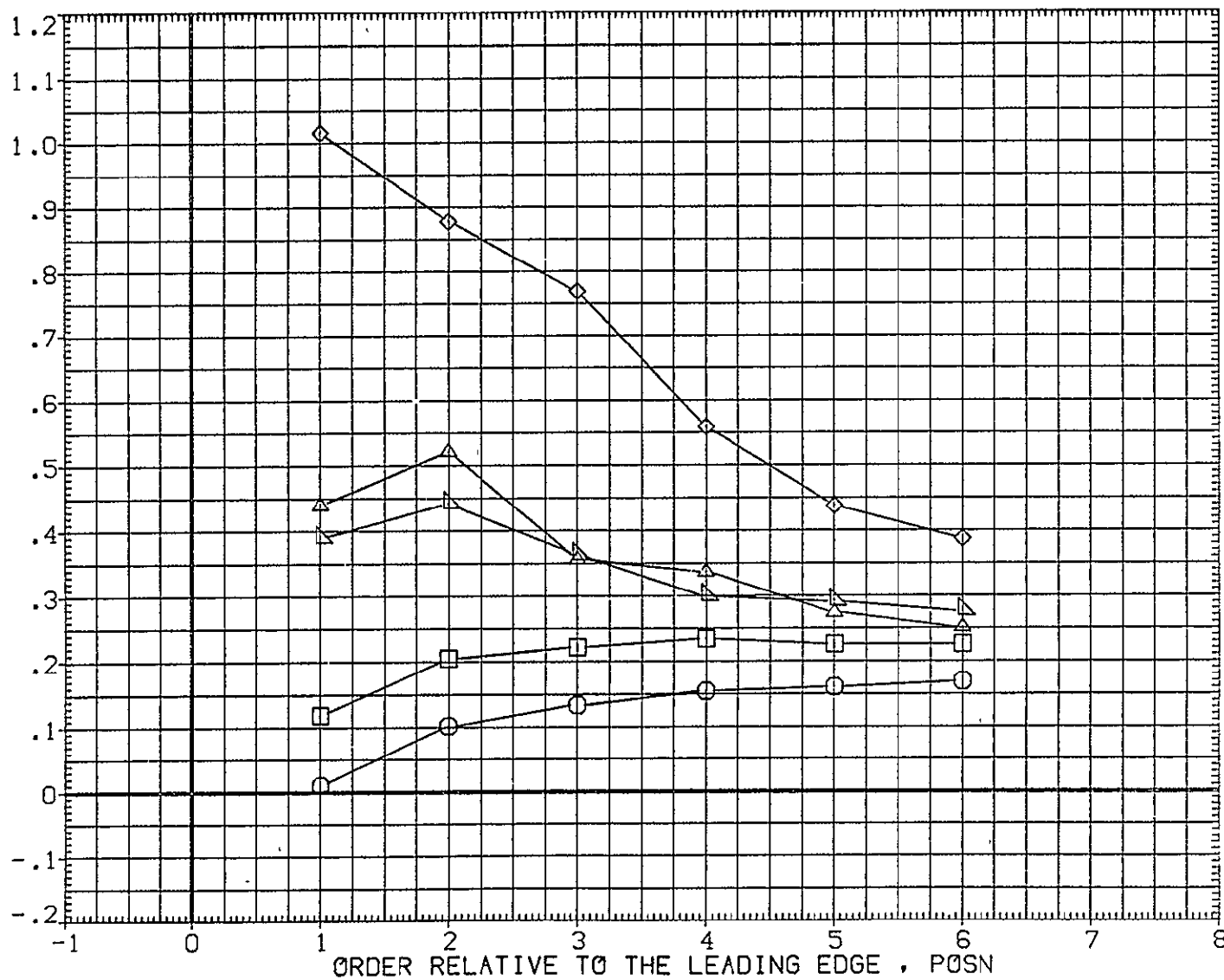


FIG. 9 WING CLUSTERS

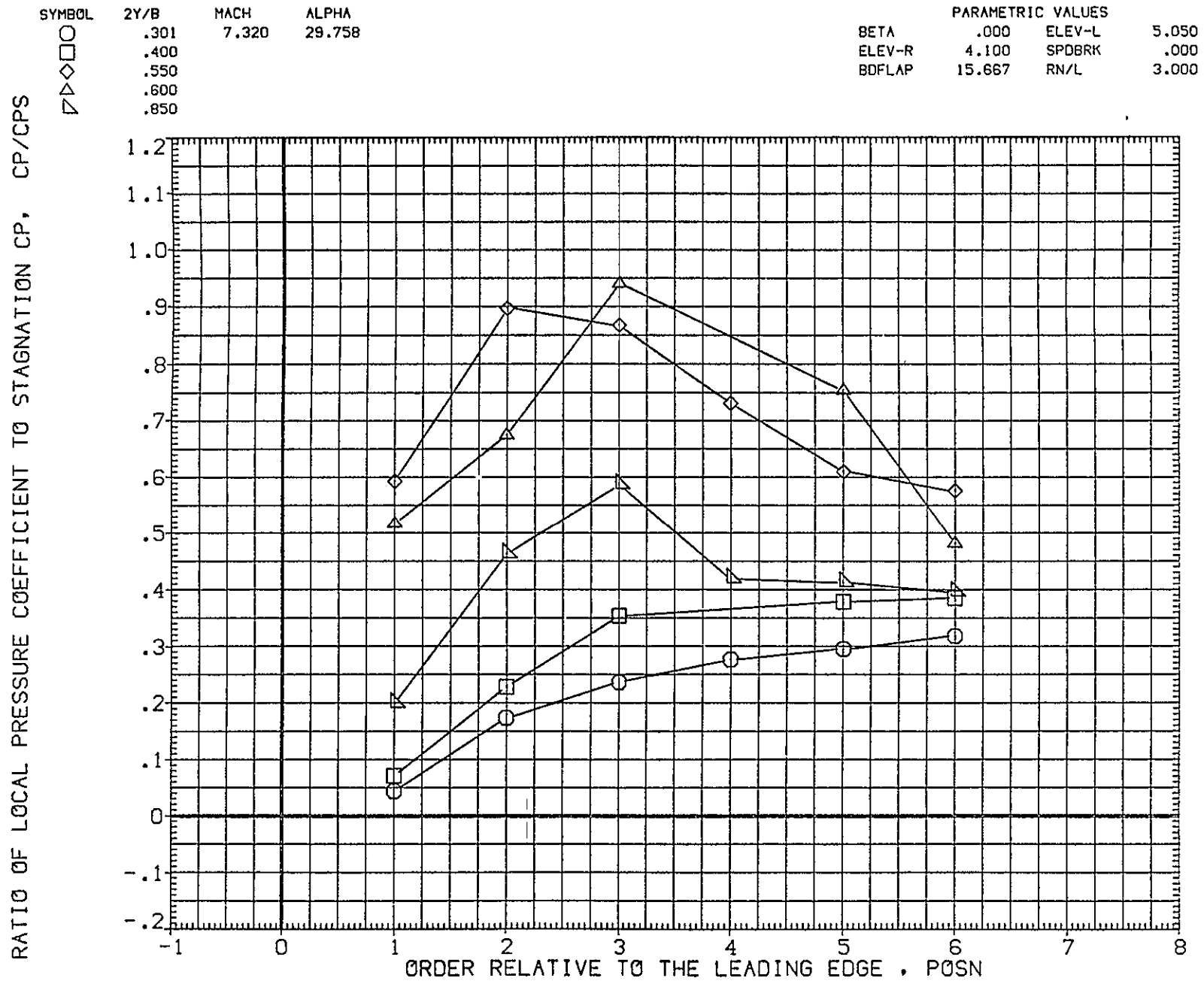


FIG. 9 WING CLUSTERS

ARC 3.5-198 0438 140C 0RB WING CLUSTERS

(PEZD07)

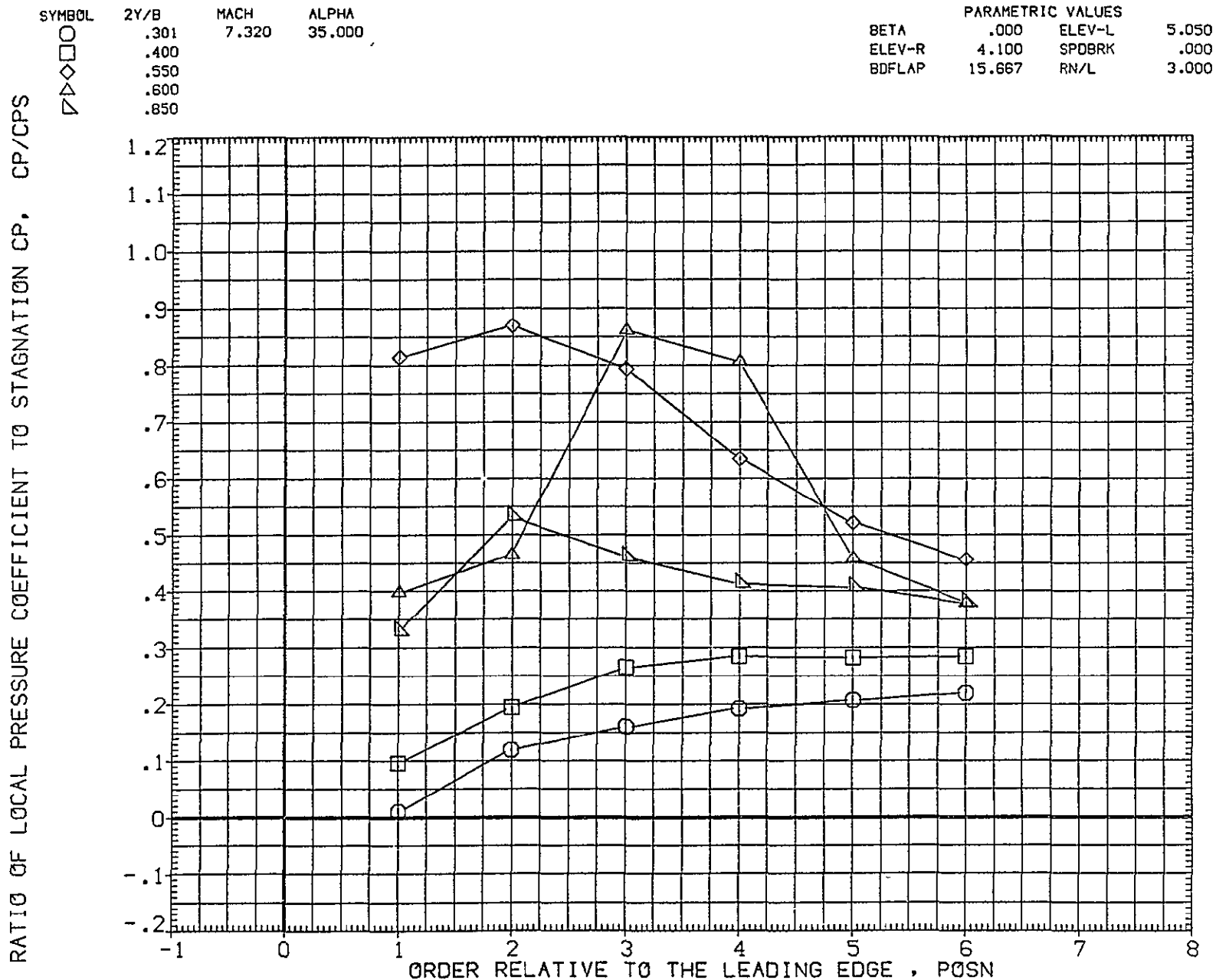


FIG. 9 WING CLUSTERS



FIG. 9 WING CLUSTERS

ARC 3.5-198 0H38 140C 0RB WING CLUSTERS

(PEZD07)

SYMBOL  
○  
□  
◇  
△  
▽

2Y/B  
.301  
.400  
.550  
.600  
.850

MACH  
7.320

ALPHA  
44.091

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BOFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

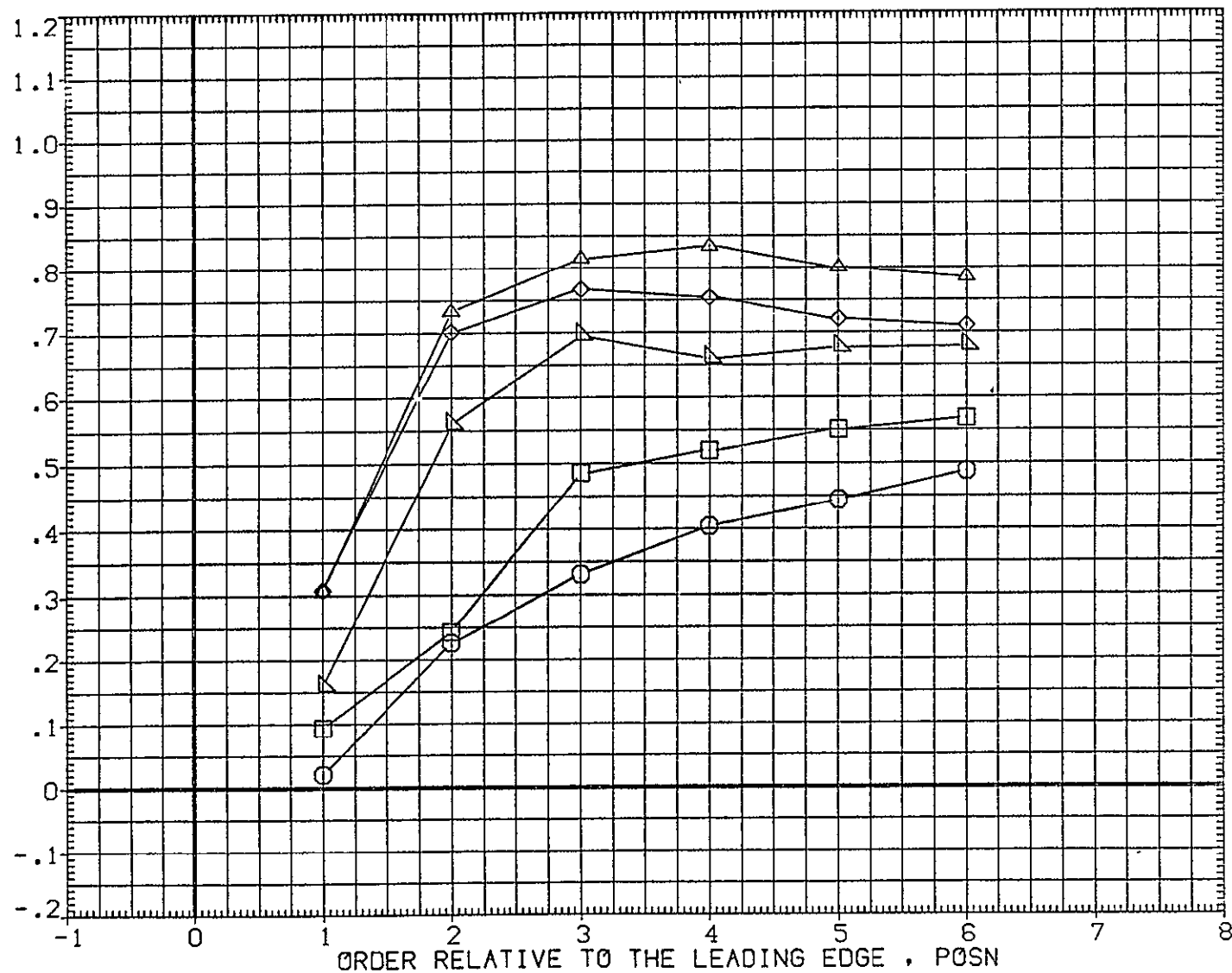


FIG. 9 WING CLUSTERS

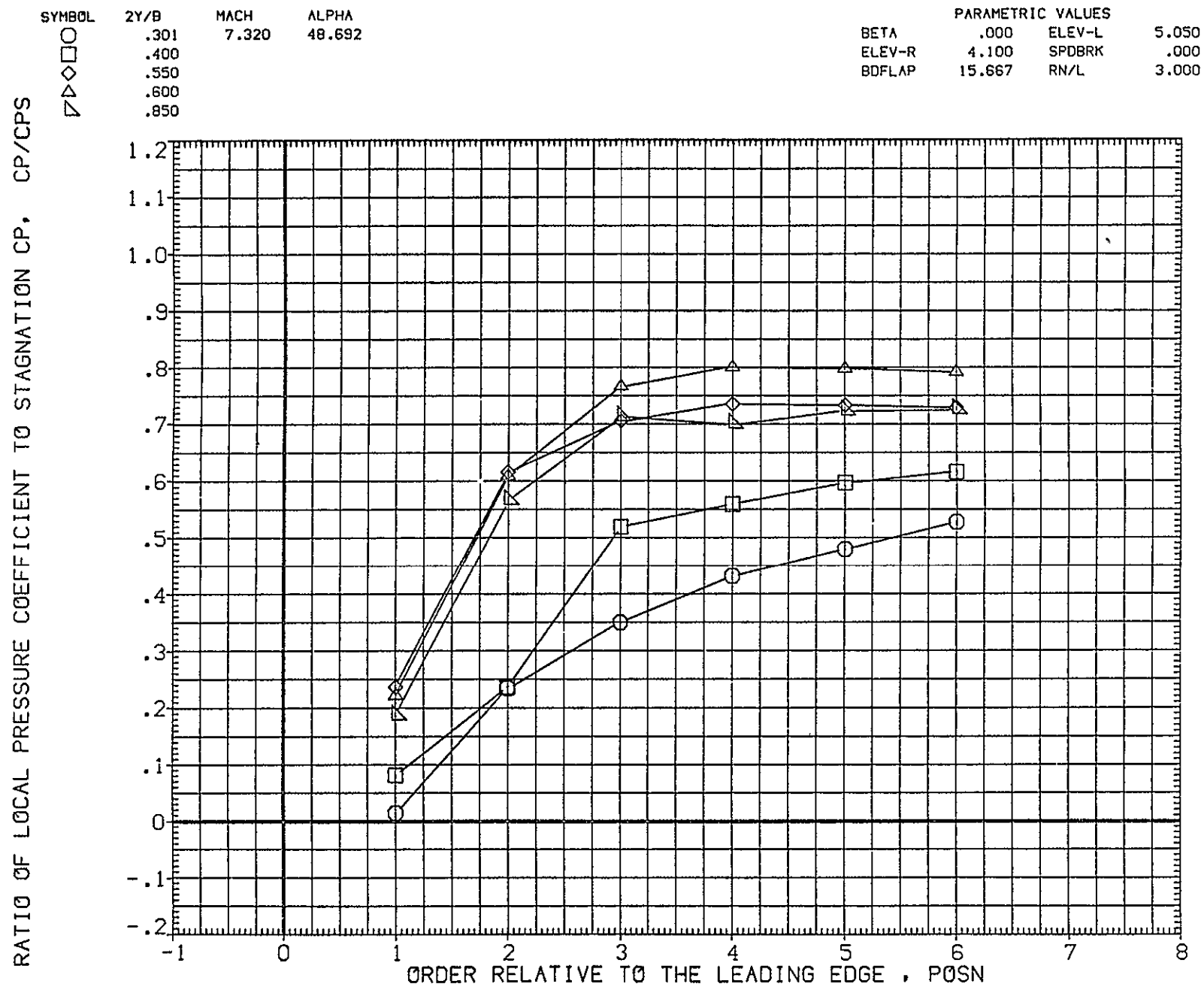


FIG. 9 WING CLUSTERS

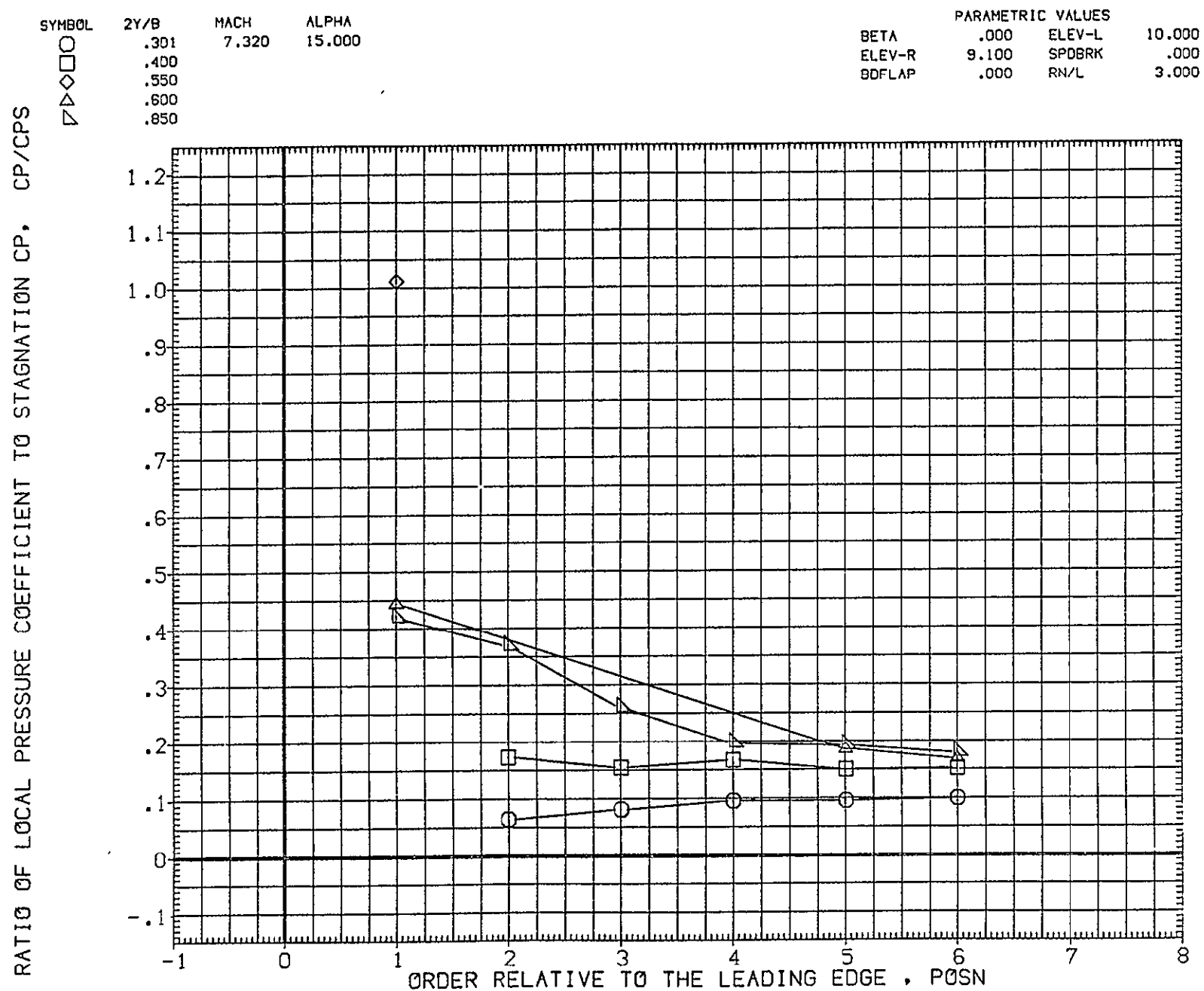


FIG. 9 WING CLUSTERS

SYMBOL	2Y/B	MACH	ALPHA
○	.301	7.320	19.459
□	.400		
◇	.550		
△	.600		
▽	.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

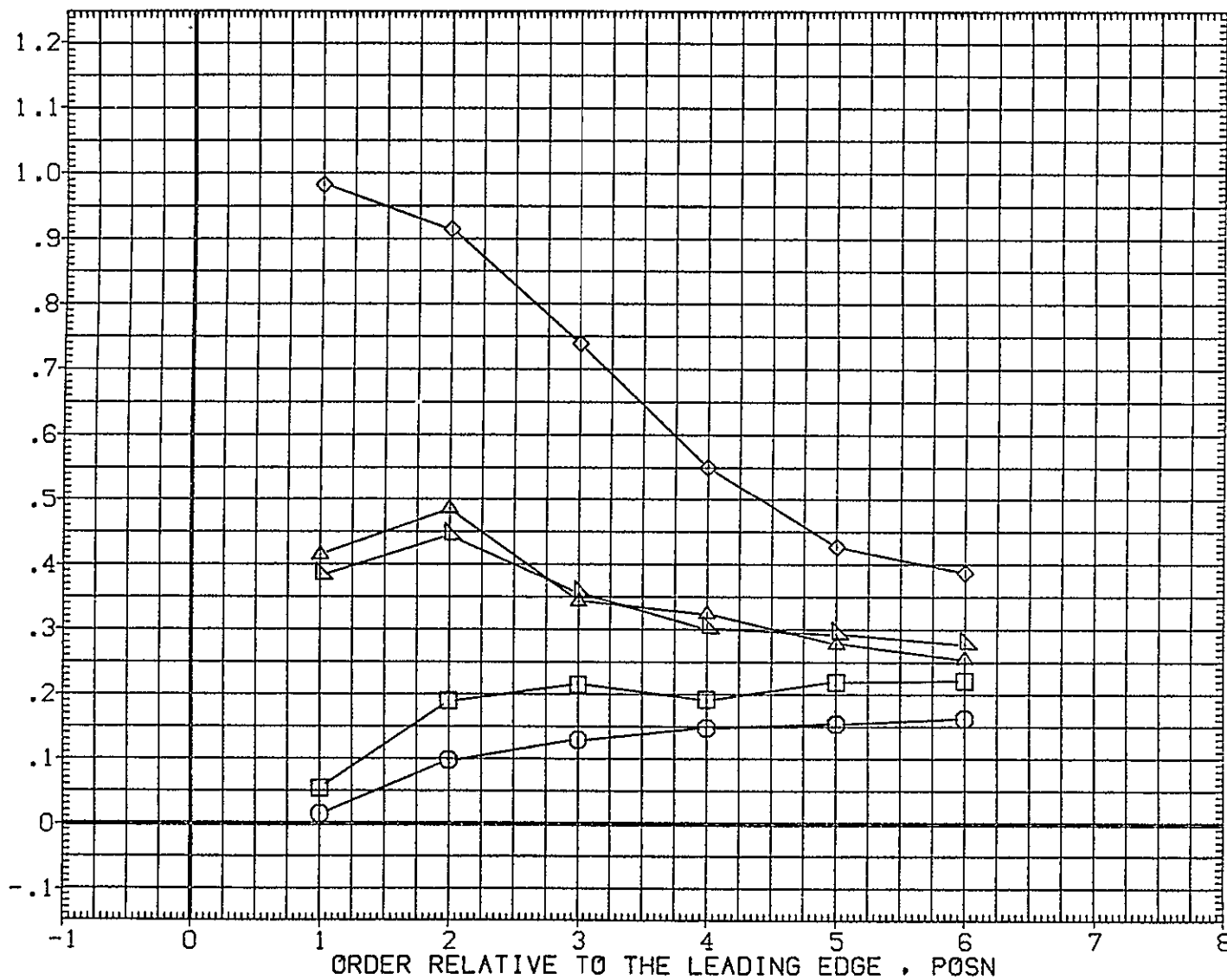


FIG. 9 WING CLUSTERS



ARC 3.5-198 0H38 140C 0RB WING CLUSTERS

(PEZD11)

SYMBOL  
○  
□  
◇  
△  
▽

2Y/B  
.301  
.400  
.550  
.600  
.850

MACH  
7.320

ALPHA  
25.000

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

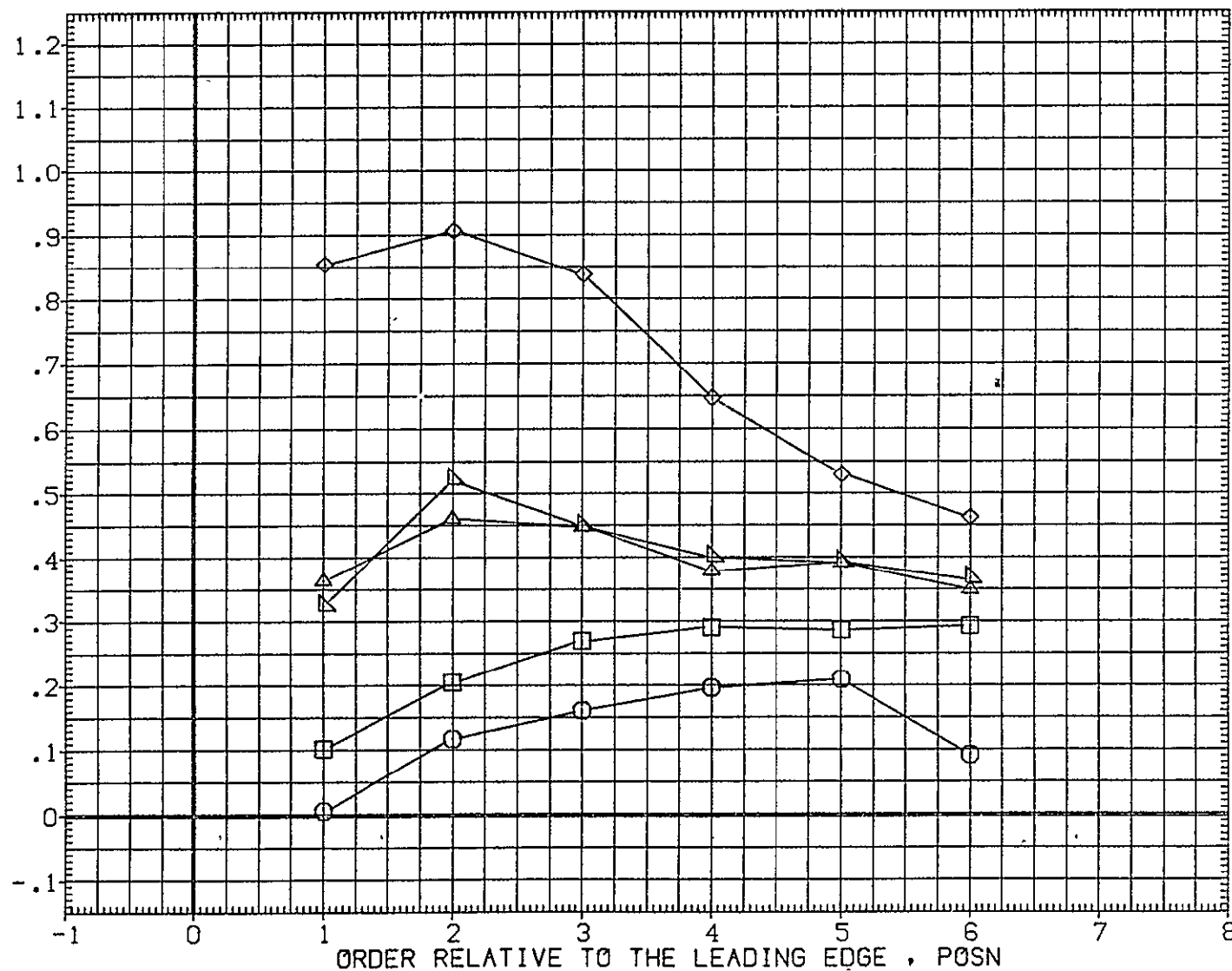


FIG. 9 WING CLUSTERS

SYMBOL  
 ○  
 □  
 ◇  
 ▲  
 ▽

2Y/B      MACH      ALPHA  
 .301      7.320      29.598  
 .400  
 .550  
 .600  
 .850

PARAMETRIC VALUES  
 BETA      .000      ELEV-L      10.000  
 ELEV-R      9.100      SPDBRK      .000  
 BDFLAP      .000      RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

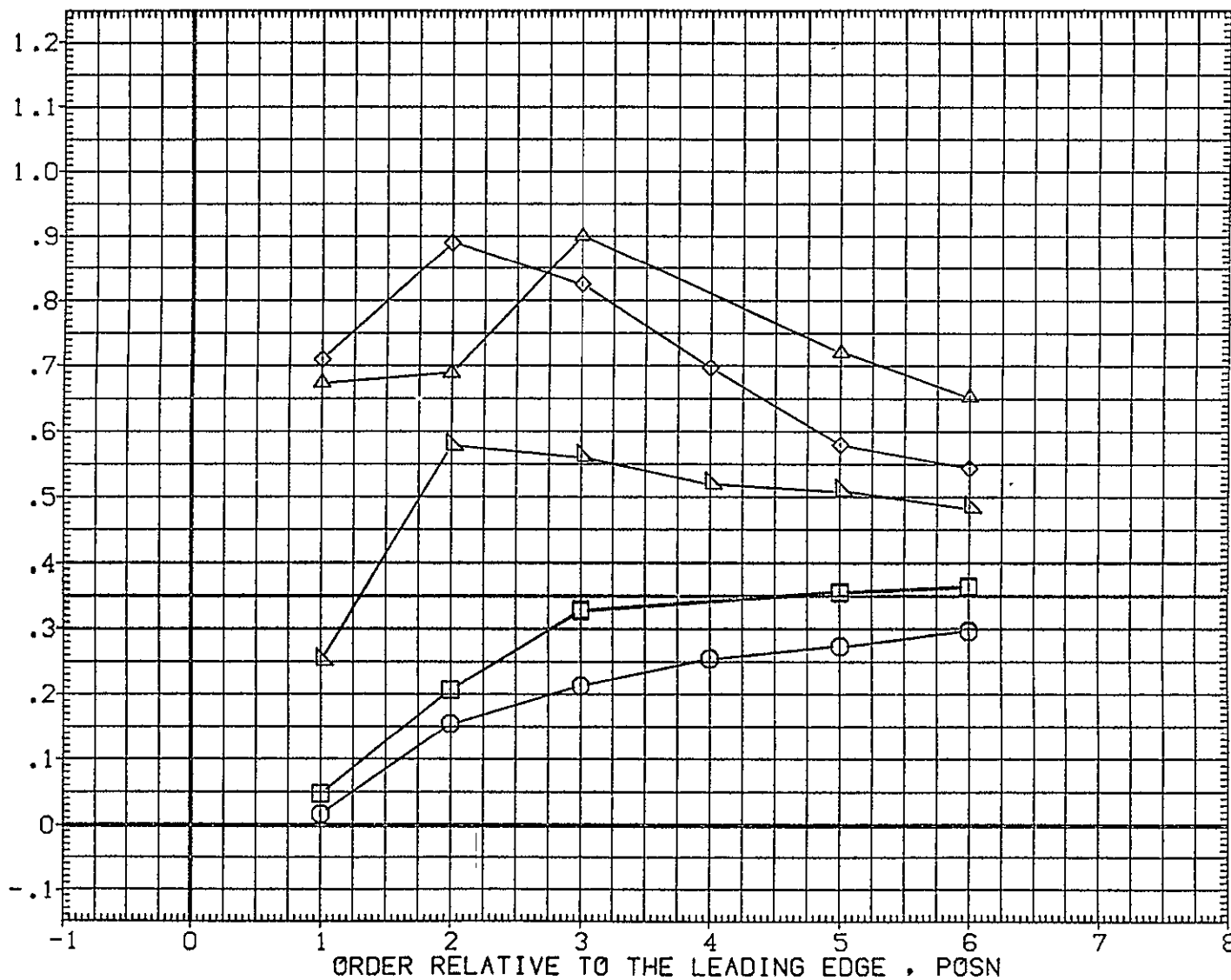


FIG. 9 WING CLUSTERS

## ARC 3.5-198 OH38 140C ORB WING CLUSTERS

(PEZD11)

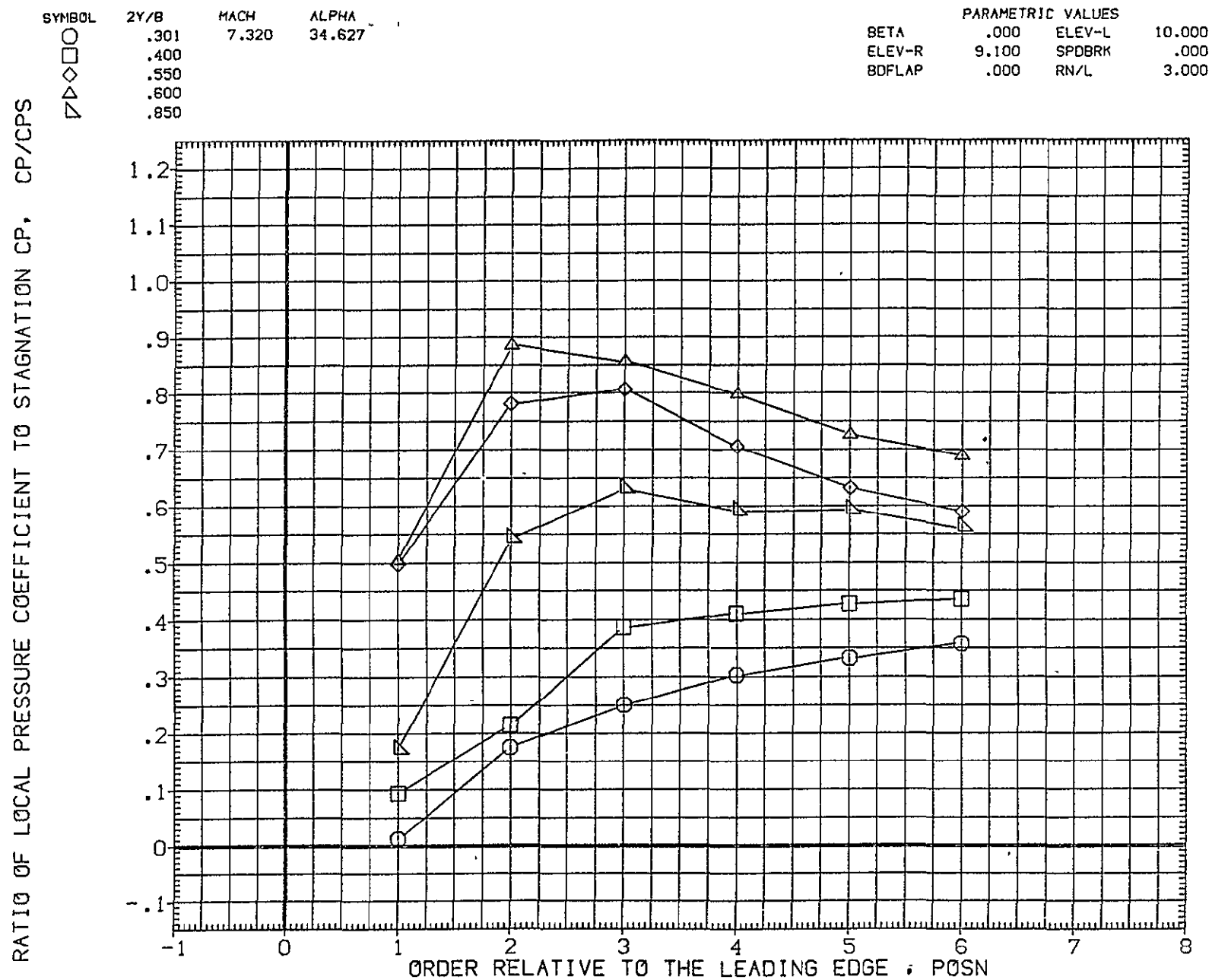


FIG. 9 WING CLUSTERS

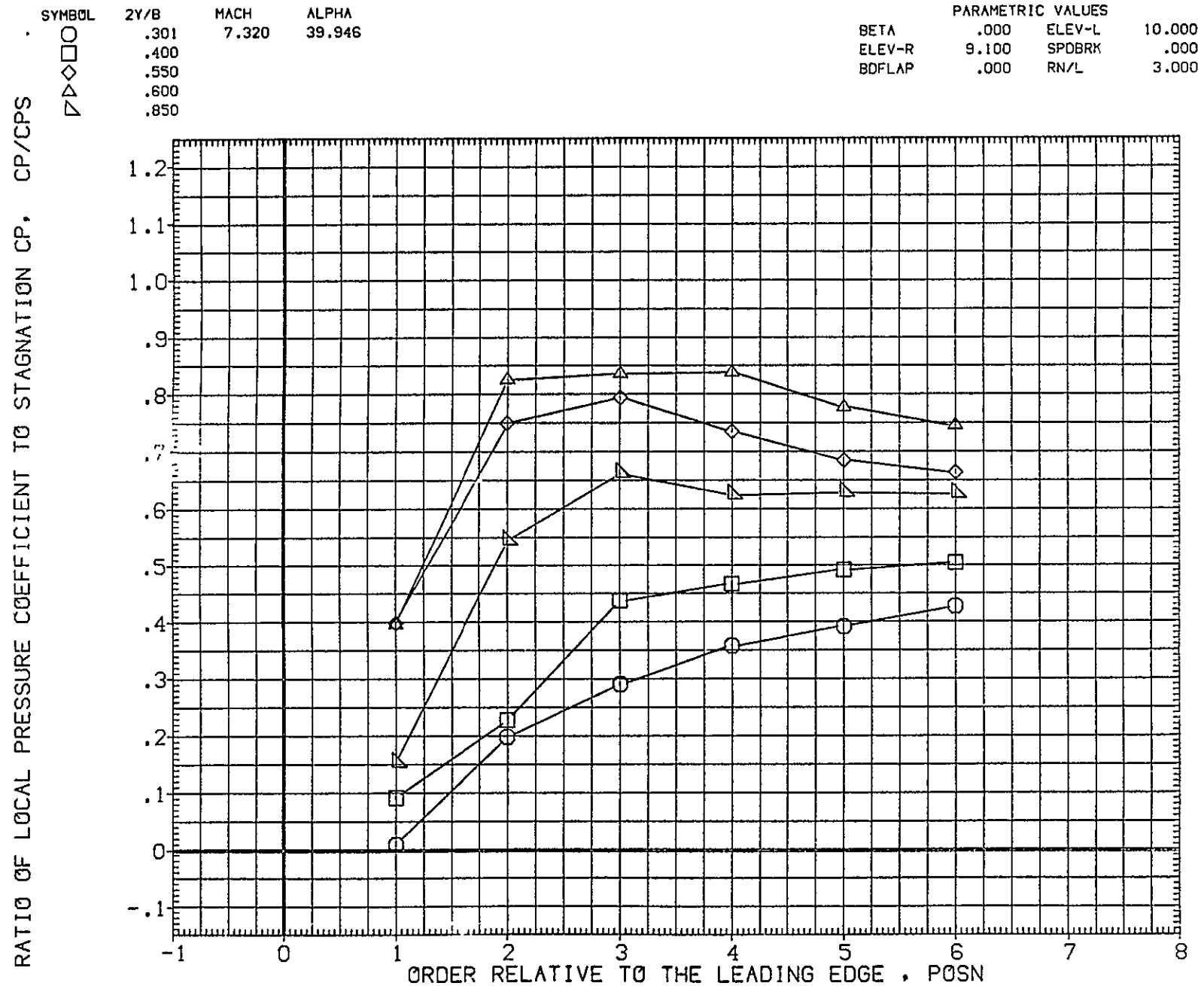


FIG. 9 WING CLUSTERS

SYMBOL  
 ○ □ ◇ △ ▽

2Y/B    MACH    ALPHA  
 .301    7.320    44.081  
 .400  
 .550  
 .600  
 .850

PARAMETRIC VALUES  
 BETA    .000    ELEV-L    10.000  
 ELEV-R    9.100    SPDBRK    .000  
 BDFLAP    .000    RN/L    3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

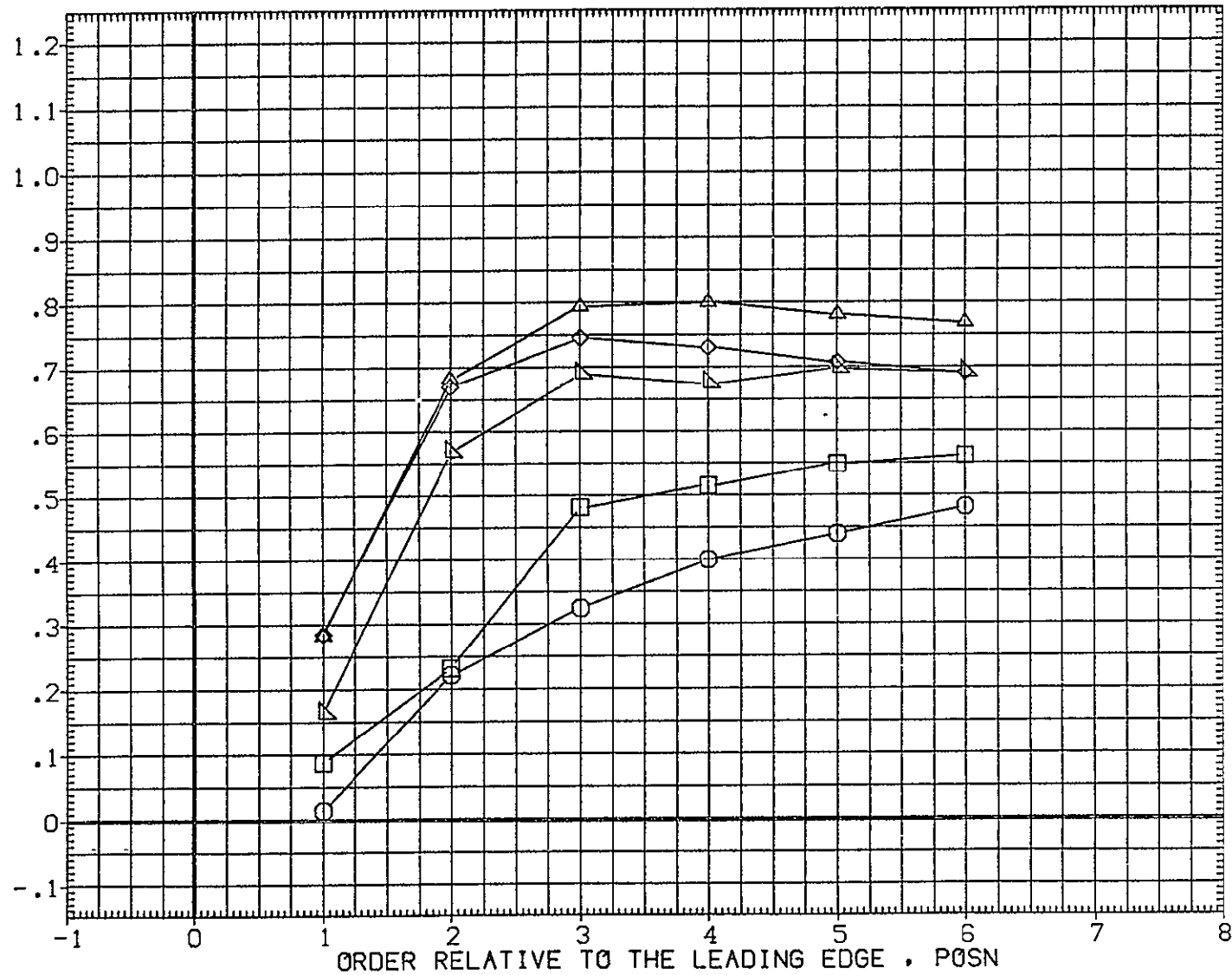


FIG. 9 WING CLUSTERS

SYMBOL  
 ○  
 □  
 ◇  
 △  
 ▽

2Y/B      MACH      ALPHA  
 .301      7.320      48.676  
 .400  
 .550  
 .600  
 .850

PARAMETRIC VALUES  
 BETA      .000      ELEV-L      10.000  
 ELEV-R      9.100      SPD8RK      .000  
 BOFLAP      .000      RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

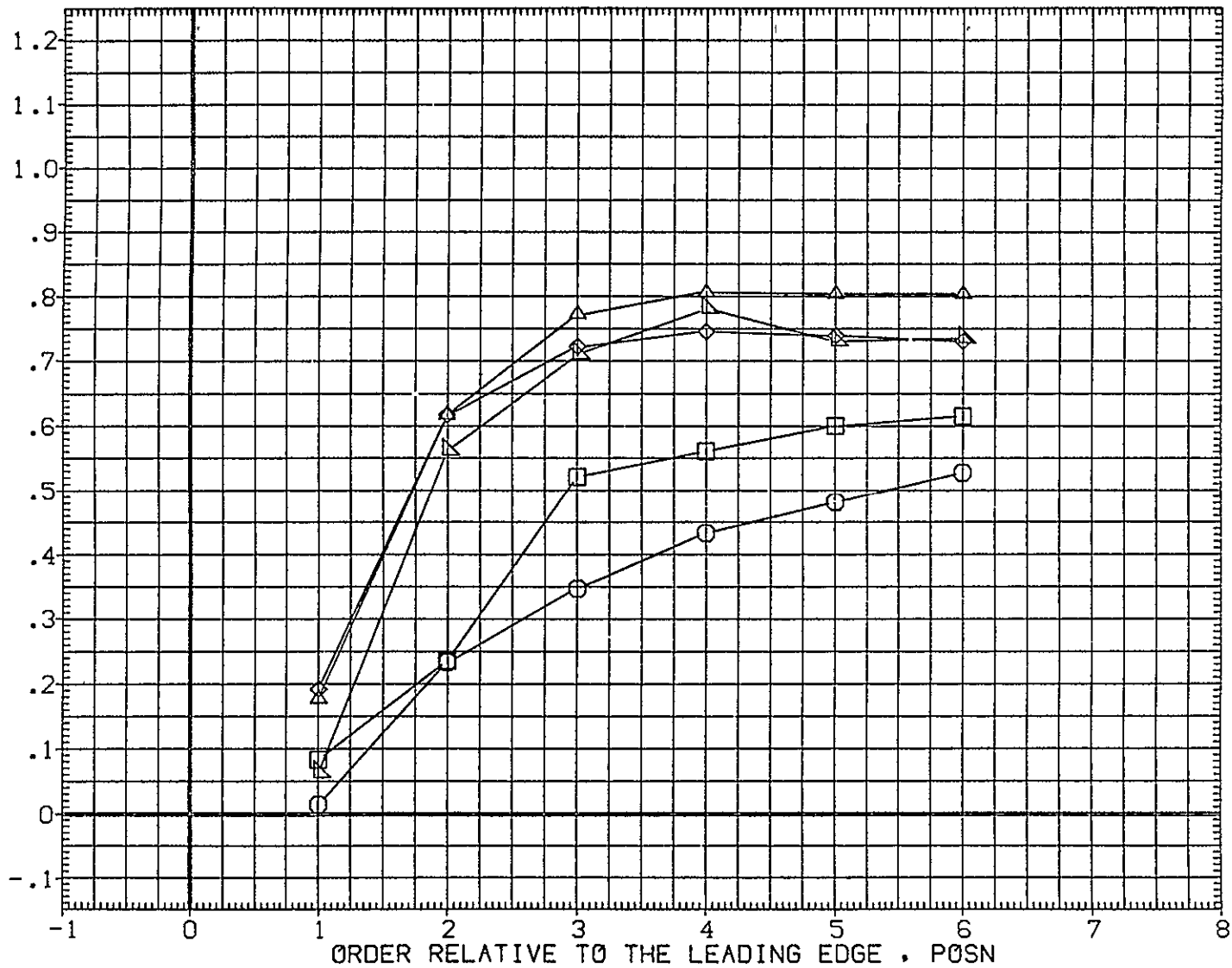


FIG. 9 WING CLUSTERS

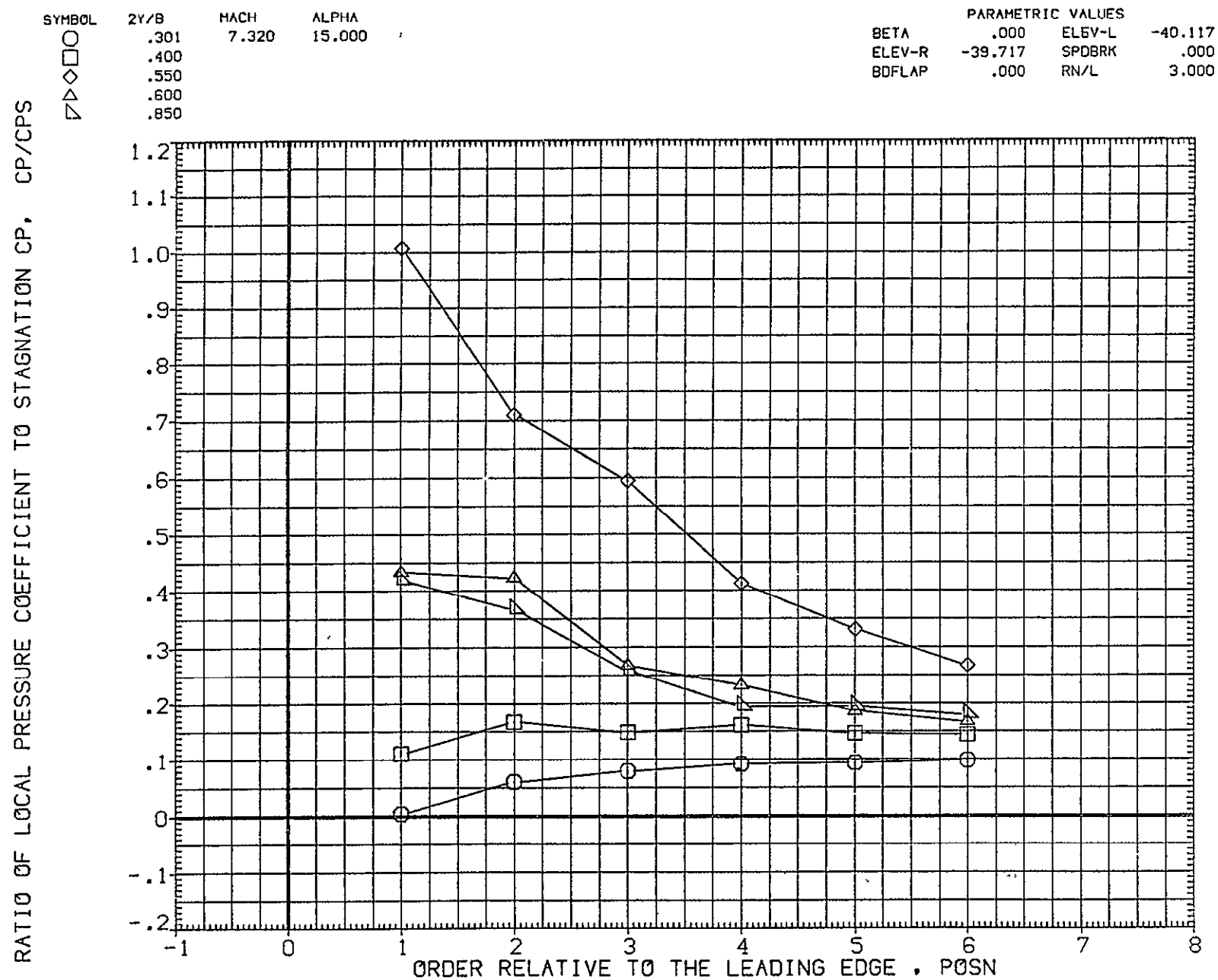


FIG. 9 WING CLUSTERS

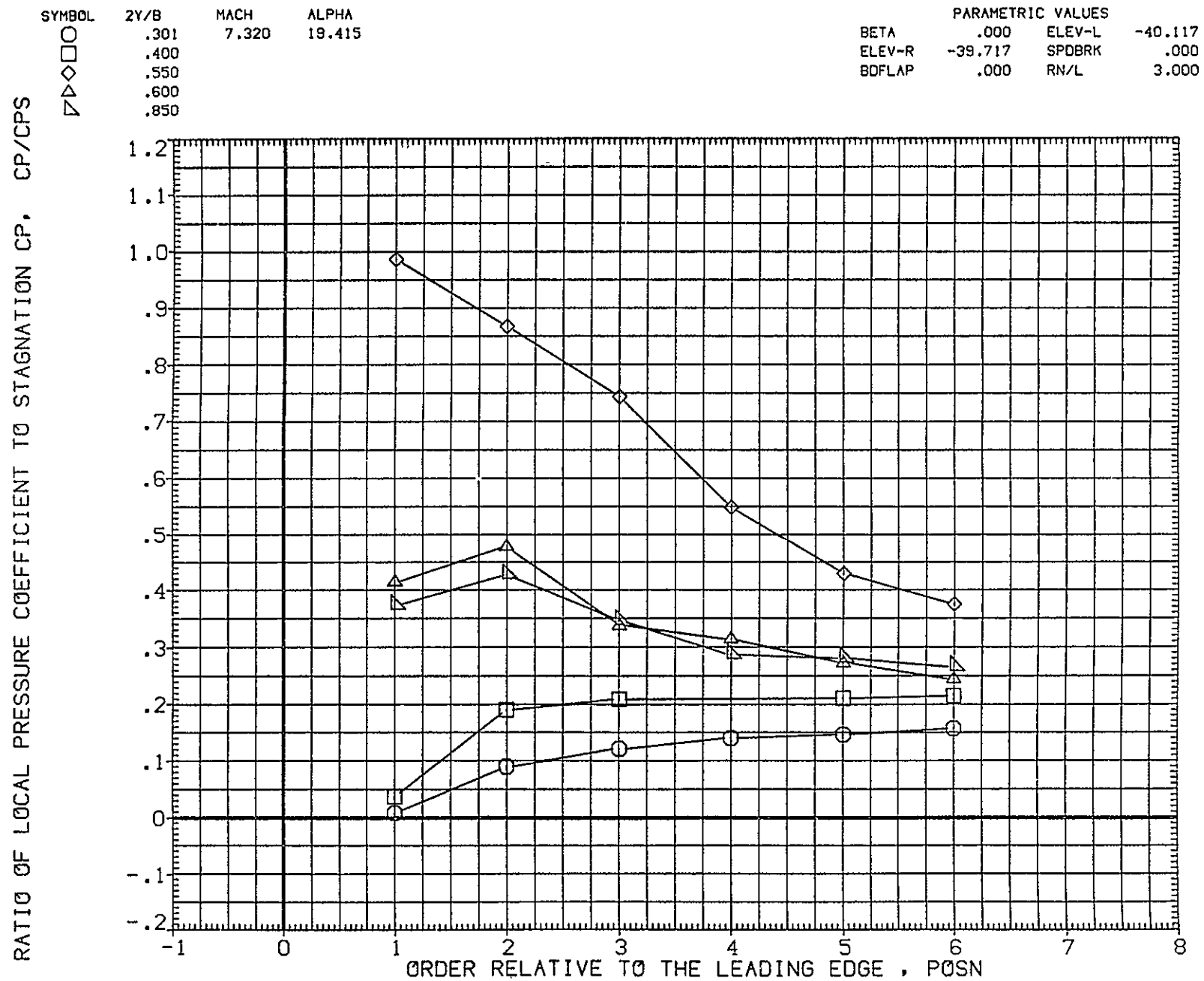


FIG. 9 WING CLUSTERS



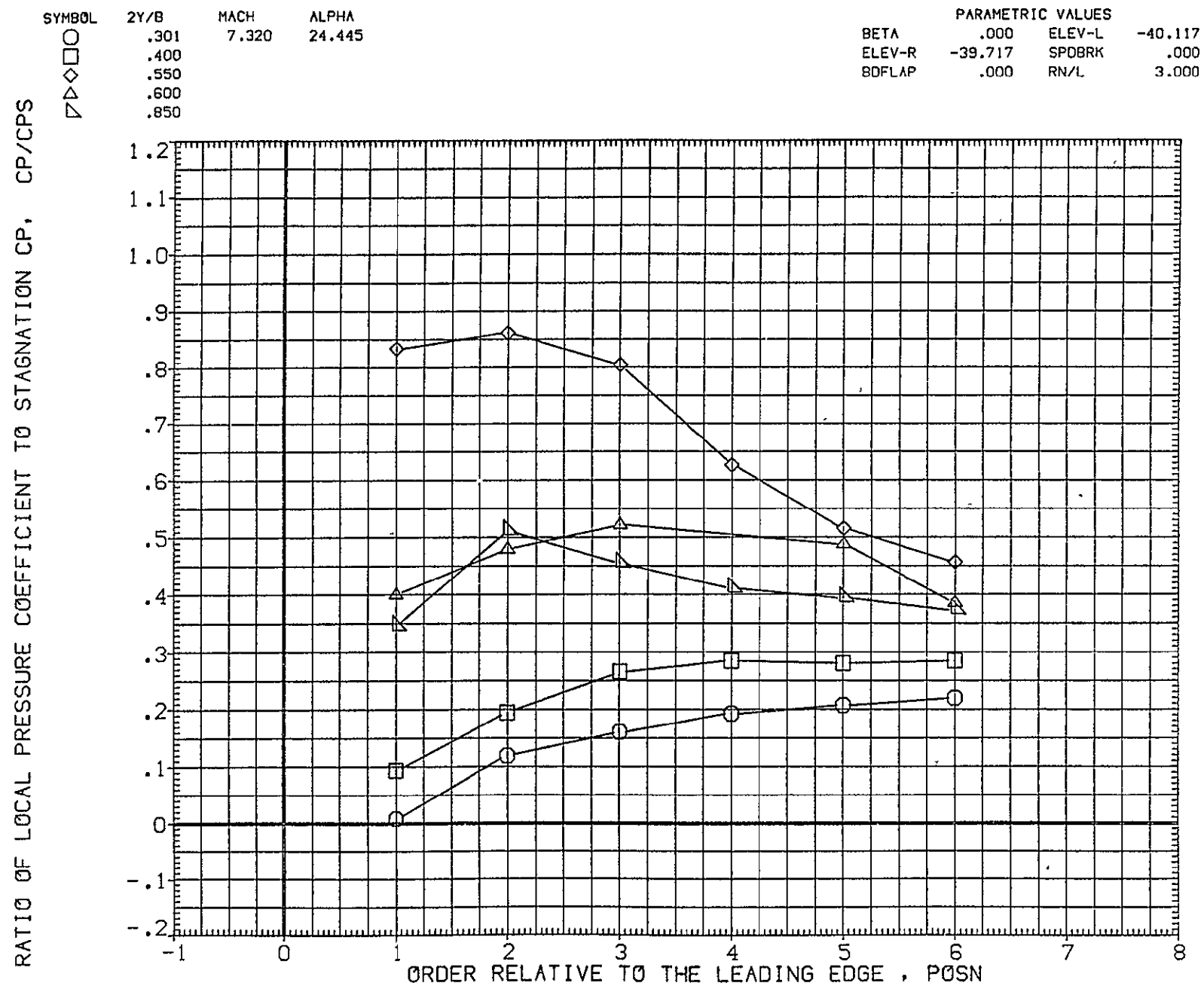


FIG. 9 WING CLUSTERS

SYMBOL	2Y/B	MACH	ALPHA
○	.301	7.320	29.707
□	.400		
◇	.550		
△	.600		
▽	.850		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

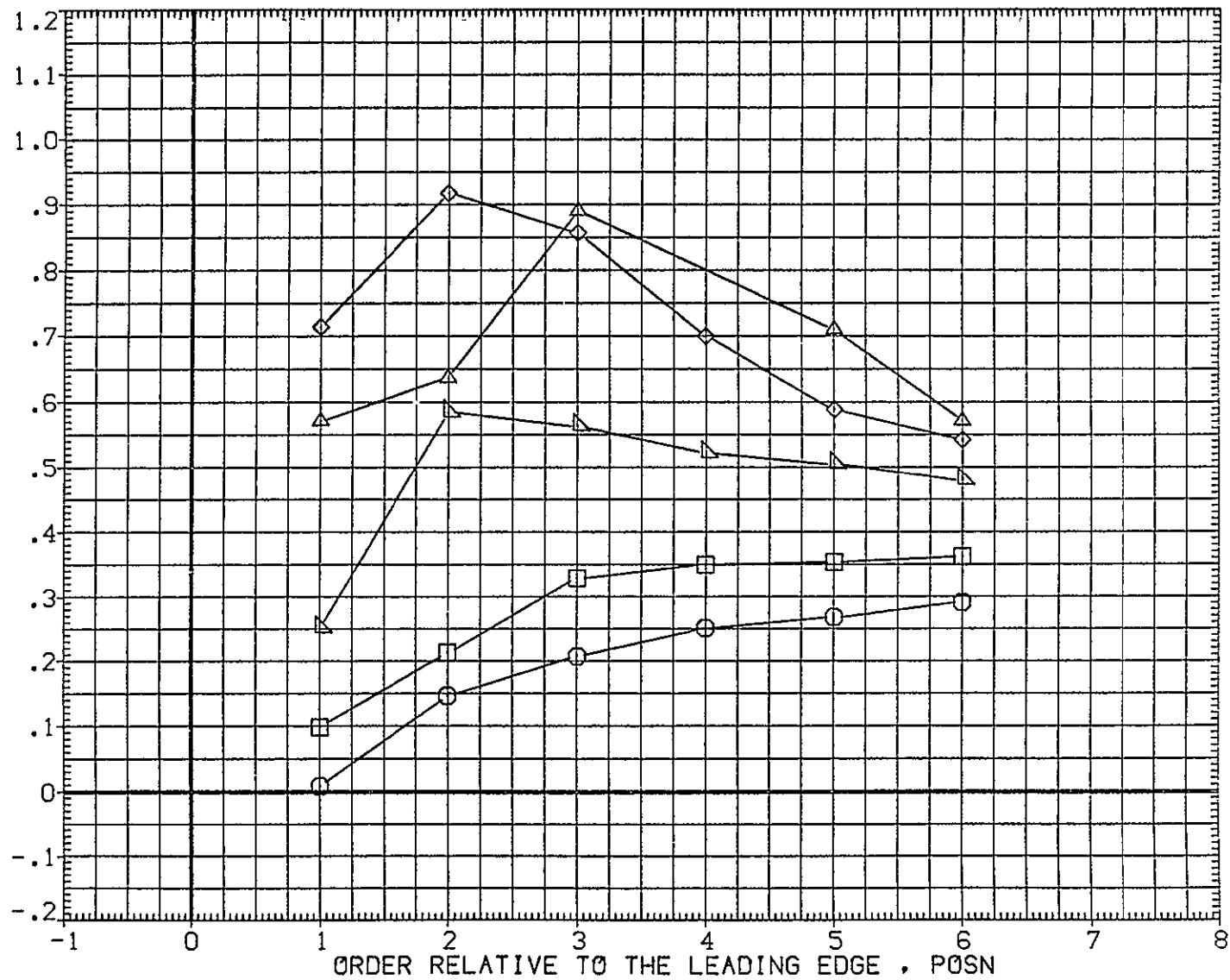


FIG. 9 WING CLUSTERS

# ARC 3.5-198 OH38 140C ORB WING CLUSTERS

(PEZD14)

SYMBOL  
○  
□  
◇  
△  
▽

2Y/B  
.301  
.400  
.550  
.600  
.850

MACH  
7.320

ALPHA  
34.863

PARAMETRIC VALUES  
BETA .000 ELEV-L -40.117  
ELEV-R -39.717 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

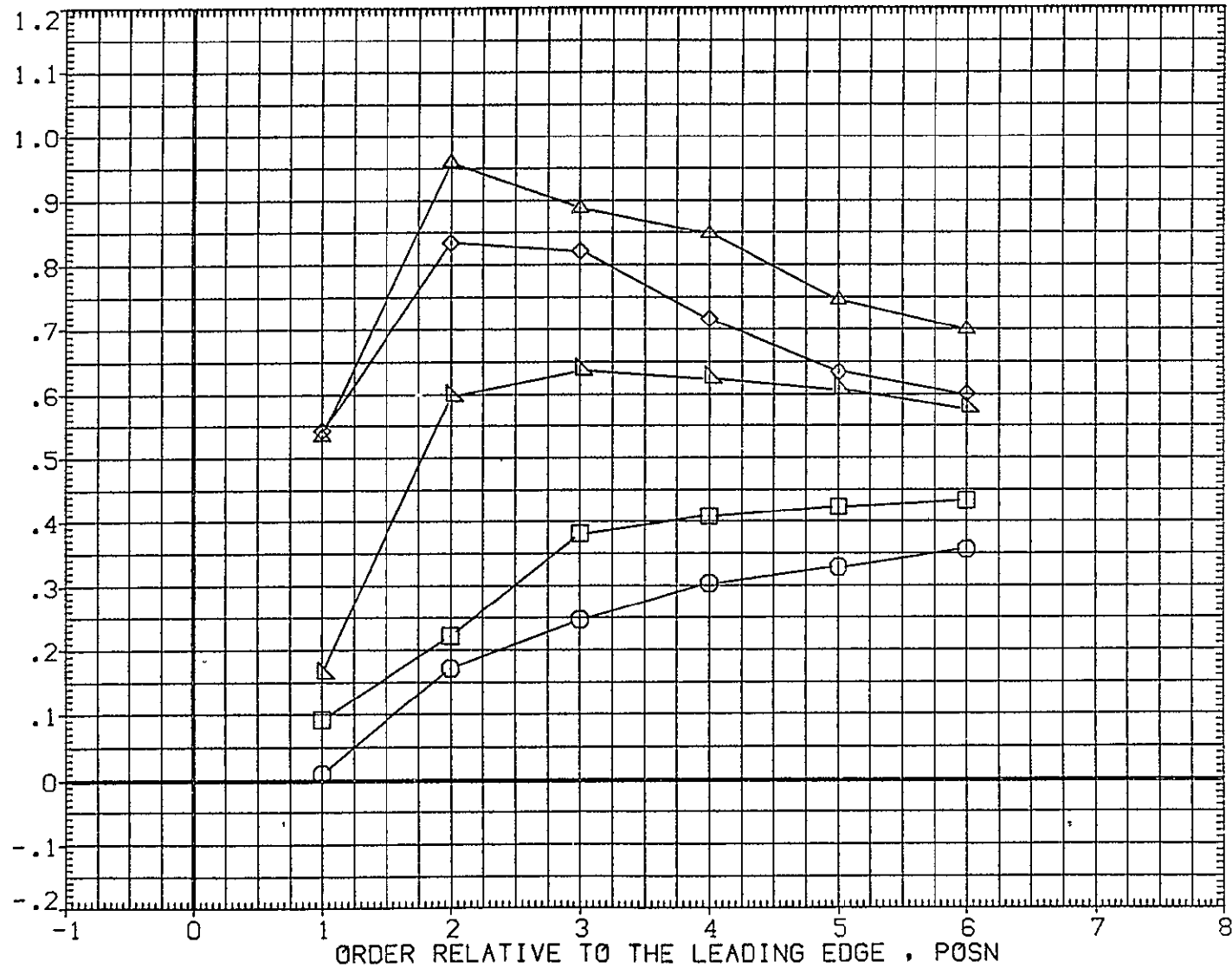


FIG. 9 WING CLUSTERS

SYMBOL

2Y/B

MACH

ALPHA

PARAMETRIC VALUES

BETA .000 ELEV-L -40.117

ELEV-R -39.717 SPDBRK .000

BDFLAP .000 RN/L 3.000

$\nabla$   $\diamond$   $\square$   $\circ$   
 $\nabla$

.301  
 .400  
 .550  
 .600  
 .850

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

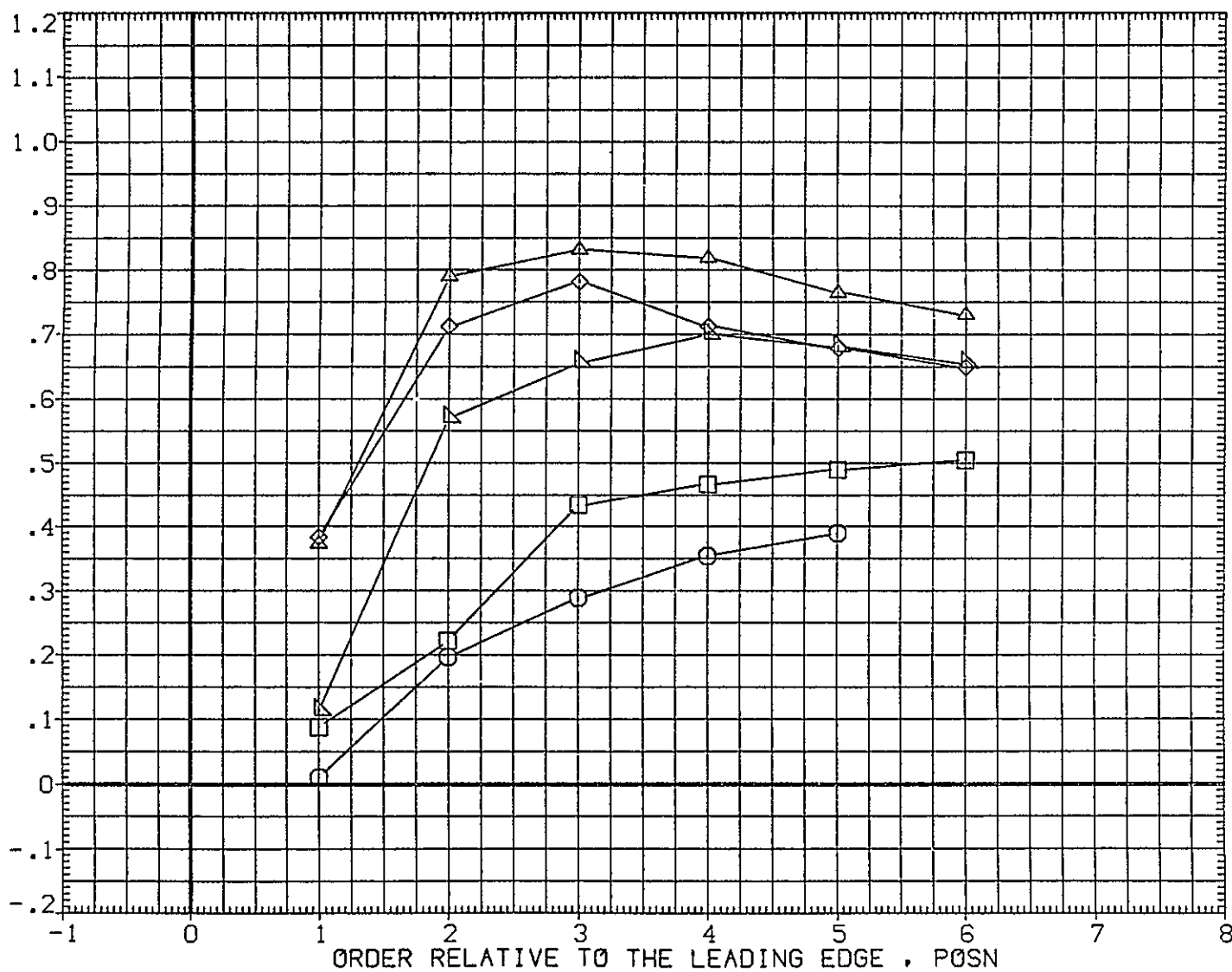


FIG. 9 WING CLUSTERS

# ARC 3.5-198 0H38 140C 0RB WING CLUSTERS

(PEZD14)

SYMBOL  
○  
□  
◇  
△  
▽

2Y/B  
.301  
.400  
.550  
.600  
.850

MACH  
7.320

ALPHA  
44.152

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

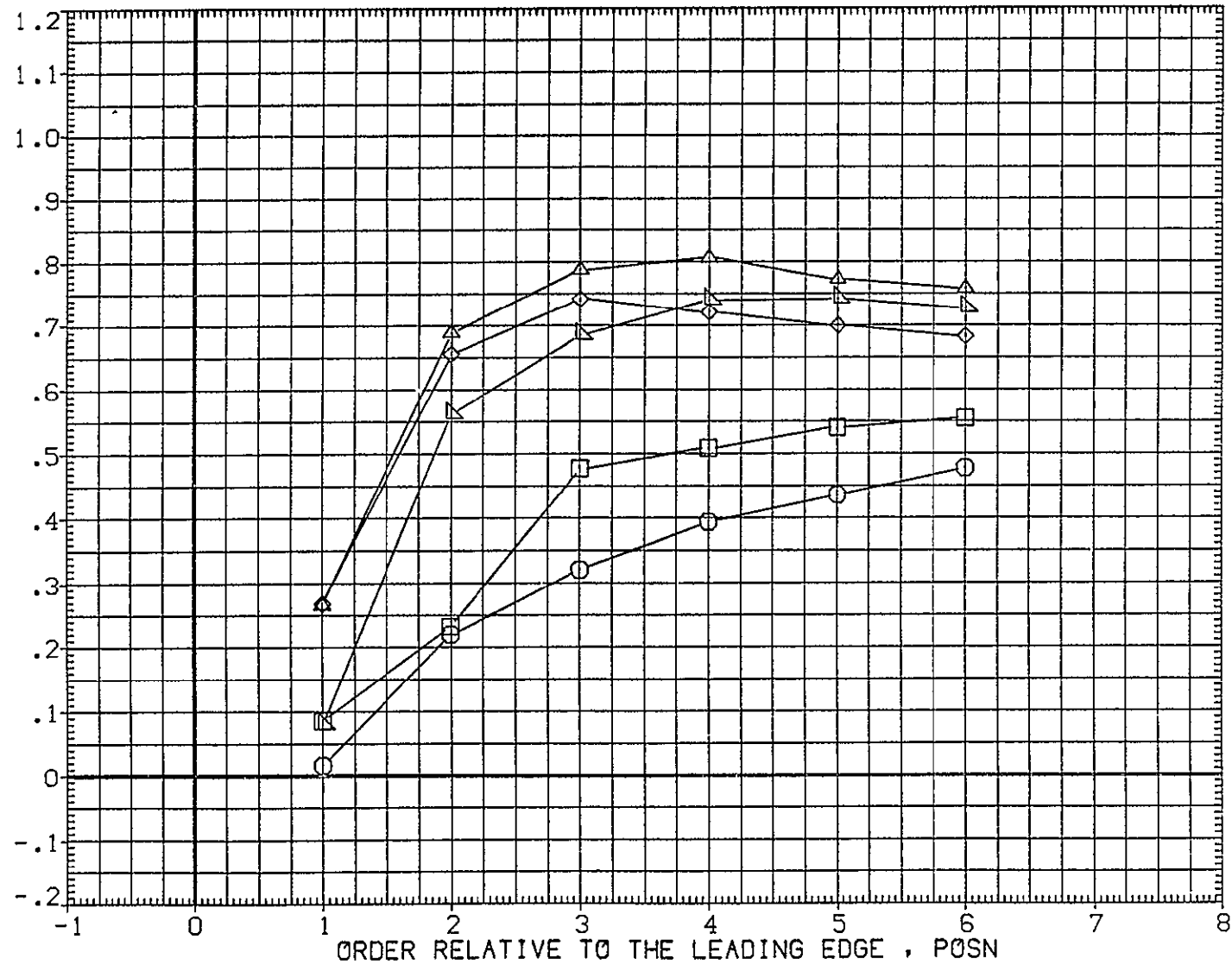


FIG. 9 WING CLUSTERS

SYMBOL  
 $\nabla$   $\diamond$   $\square$   $\circ$   
 $\triangle$

2Y/B  
 .301  
 .400  
 .550  
 .600  
 .850

MACH  
 7.320

ALPHA  
 50.000

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

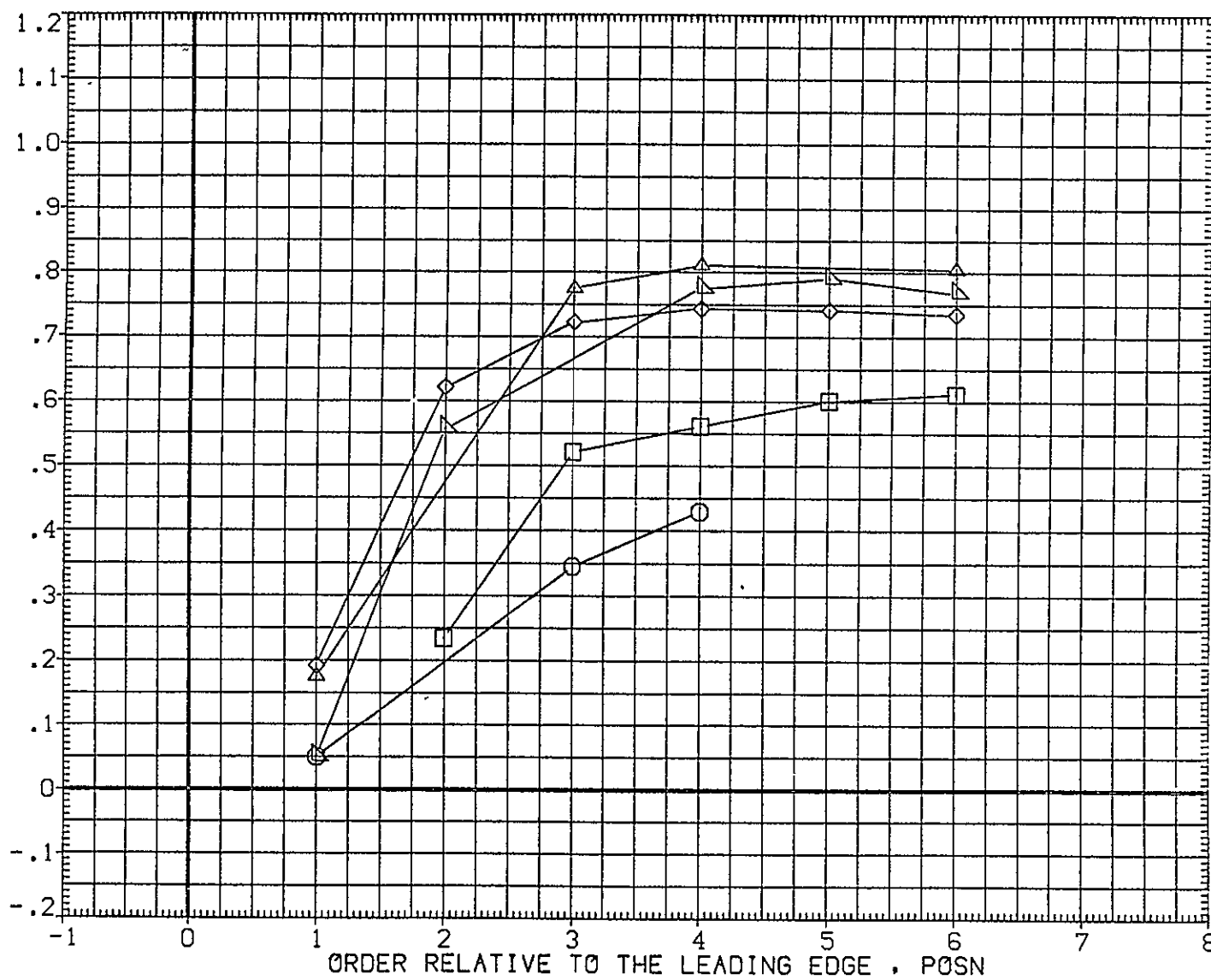


FIG. 9 WING CLUSTERS

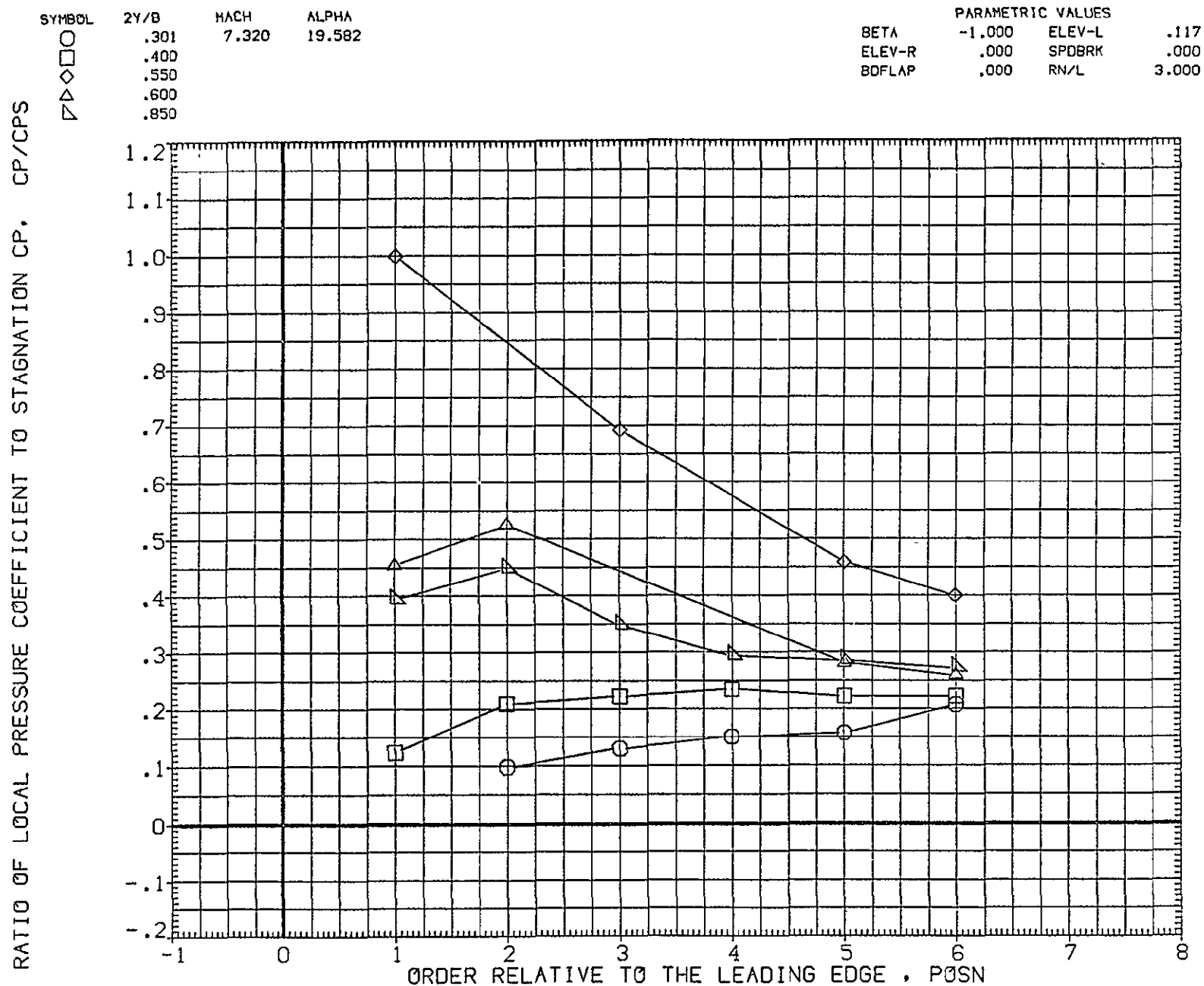


FIG. 9 WING CLUSTERS

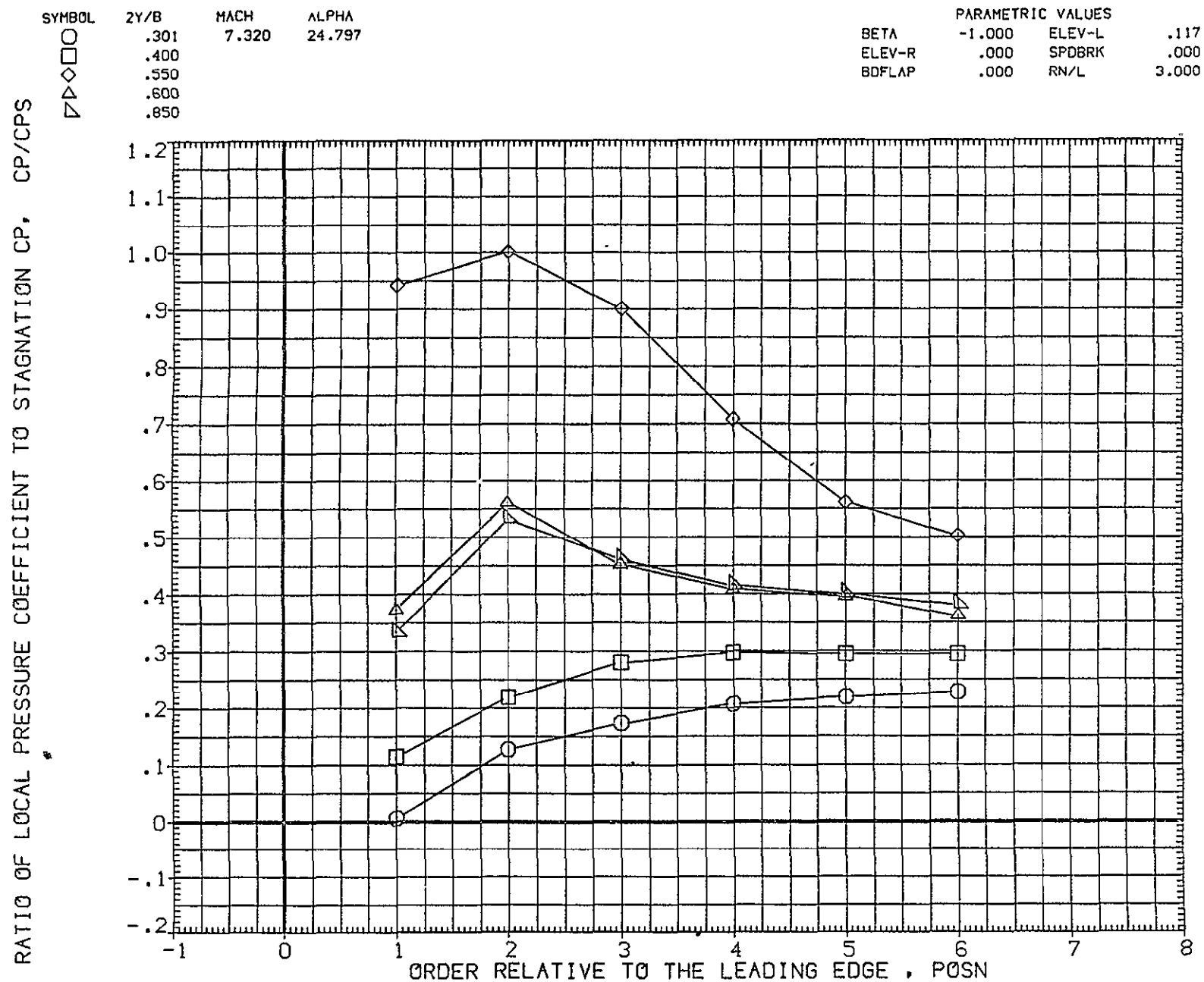


FIG. 9 WING CLUSTERS



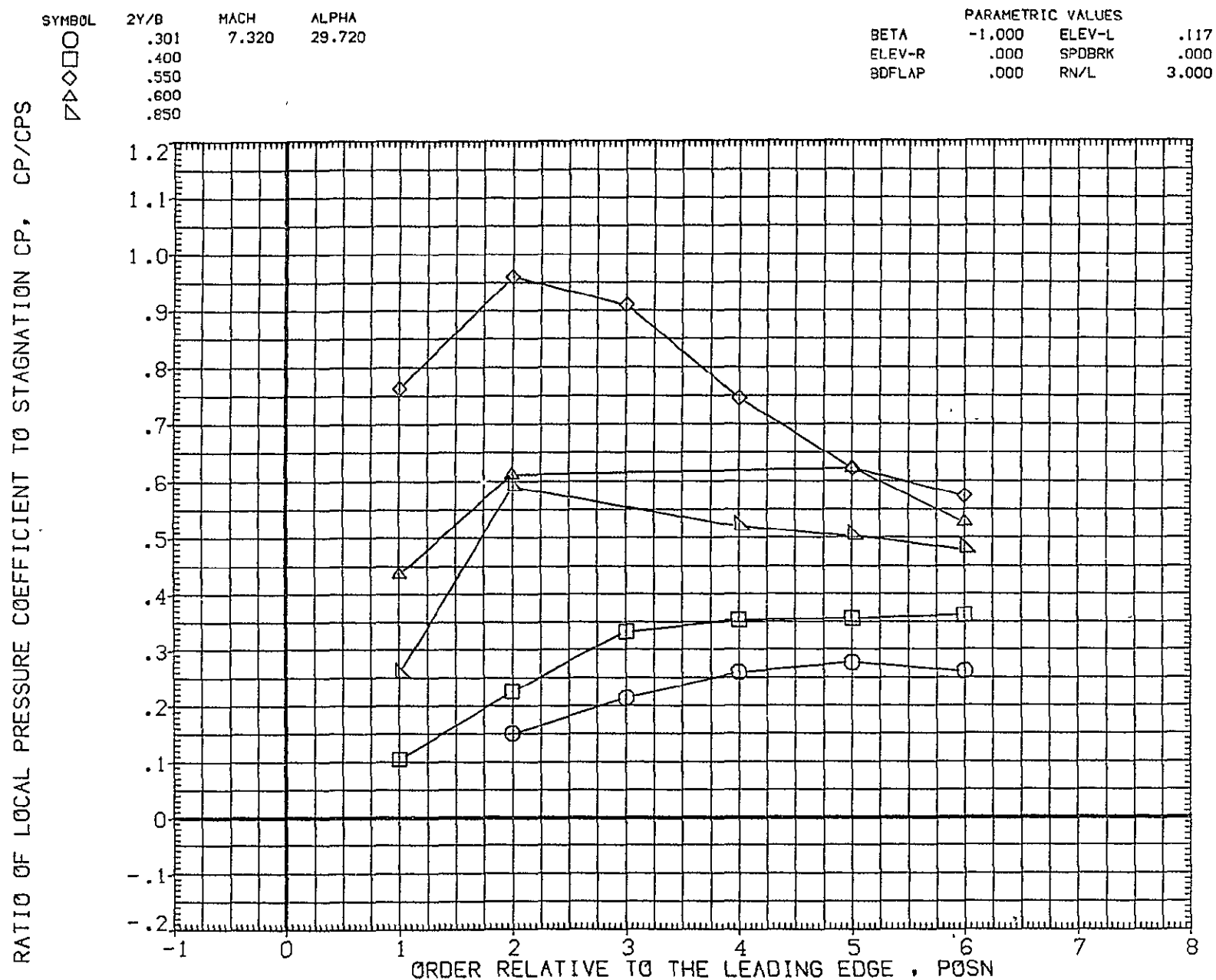


FIG. 9 WING CLUSTERS



FIG. 9 WING CLUSTERS

SYMBOL  
 ○  
 □  
 ◇  
 △

2Y/B  
 .301  
 .400  
 .550  
 .600  
 .850

MACH  
 7.320

ALPHA  
 48.717

PARAMETRIC VALUES

BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

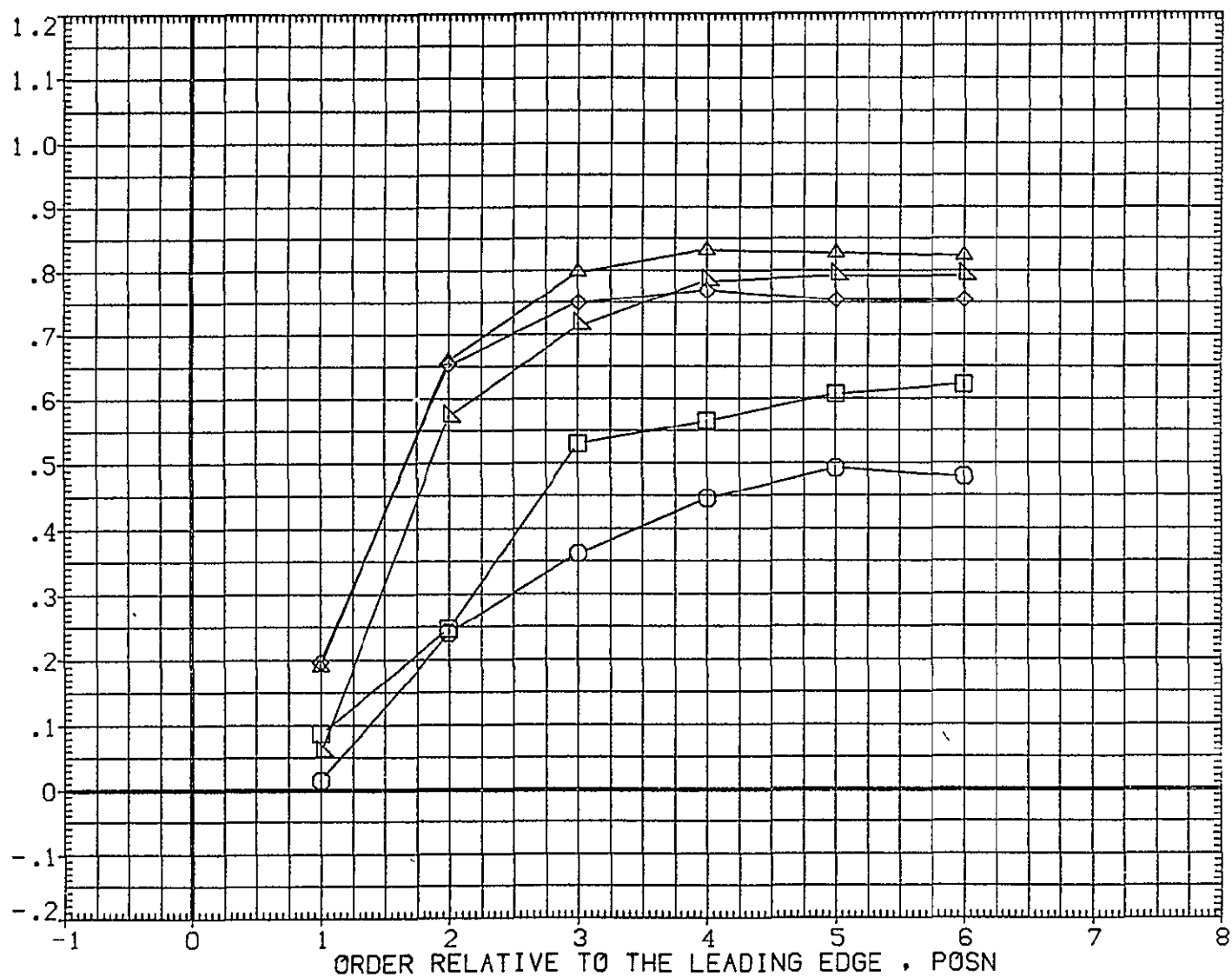


FIG. 9 WING CLUSTERS

SYMBOL

2Y/B

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○  
 □  
 ◇  
 △  
 ▽

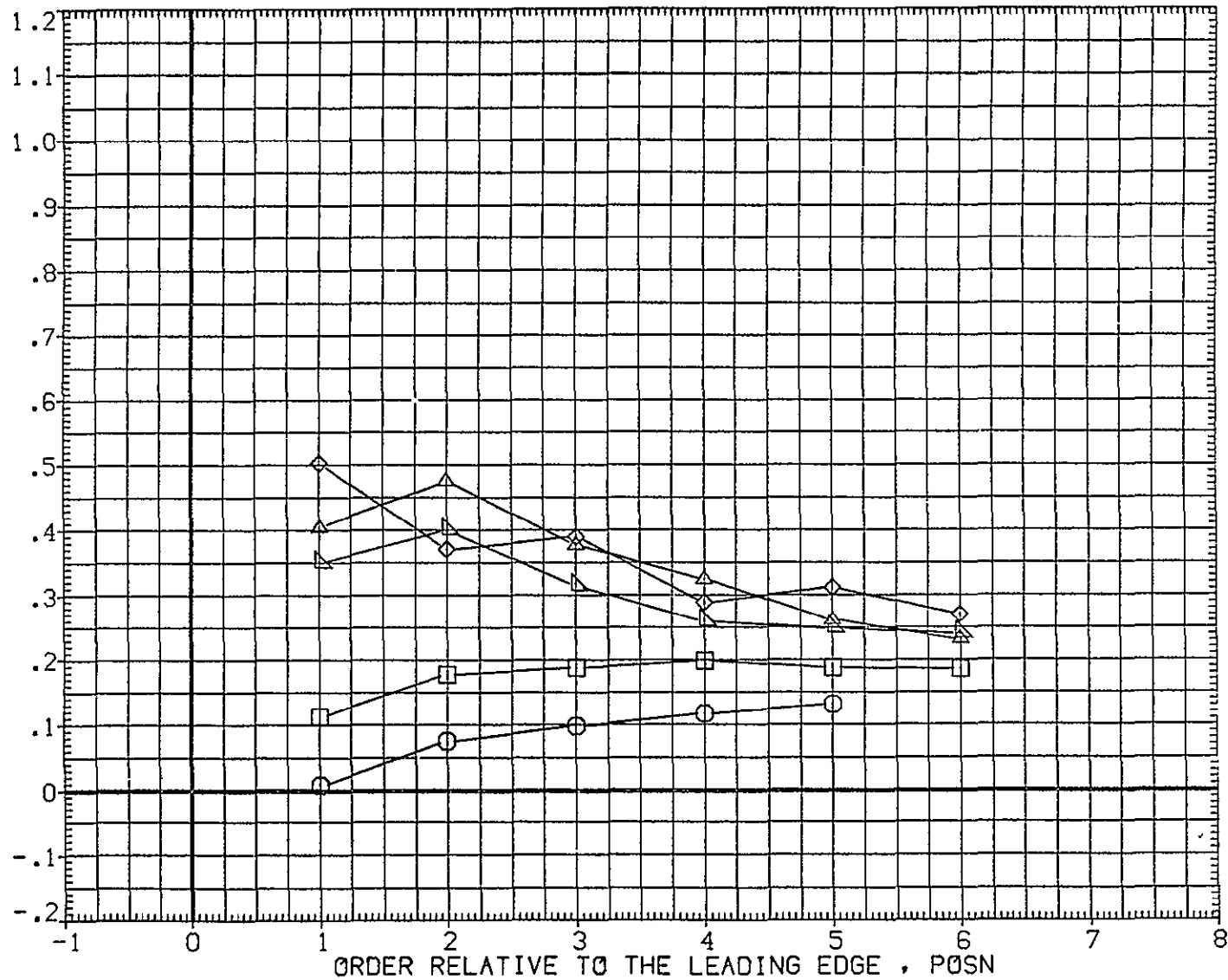


FIG. 9 WING CLUSTERS

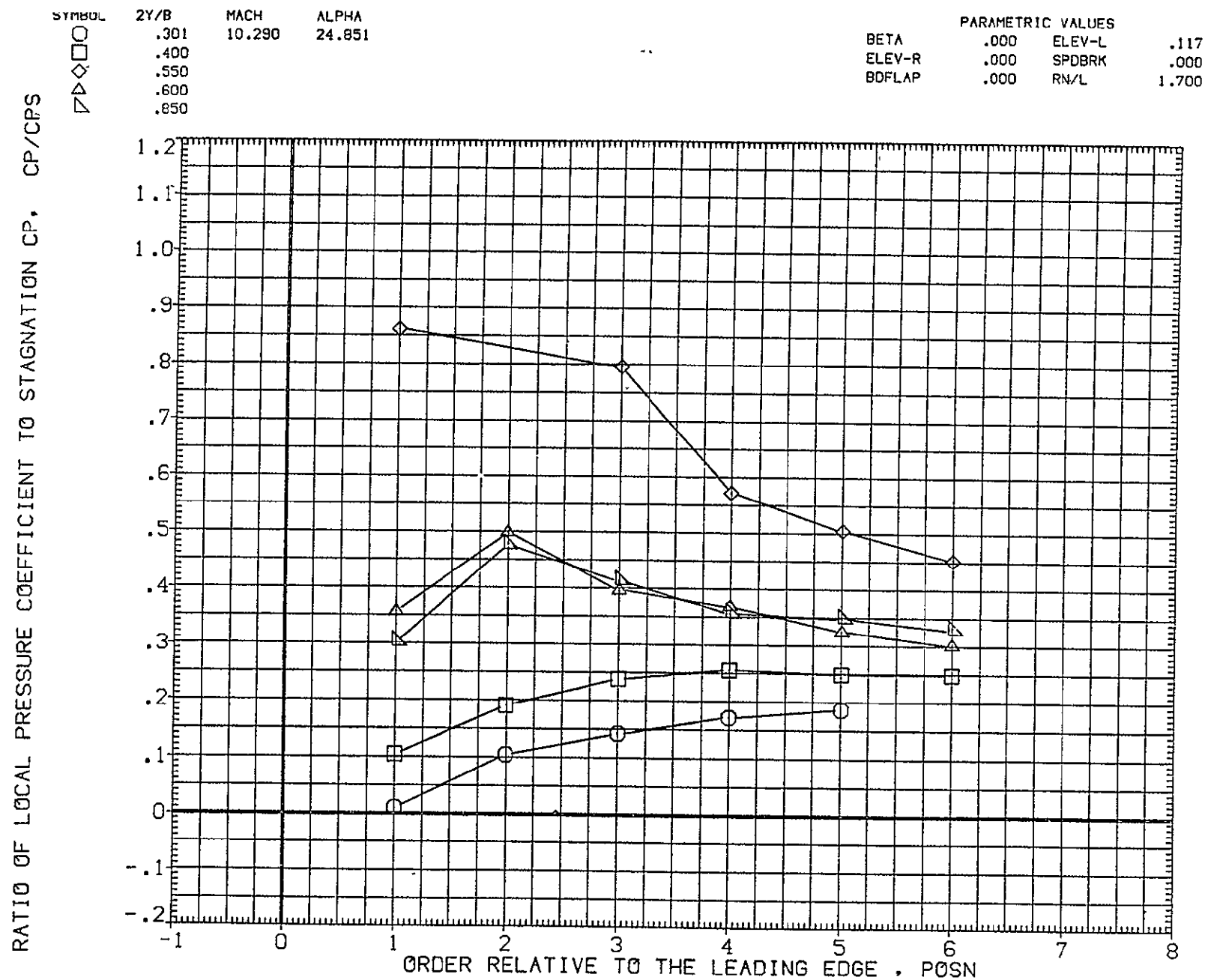


FIG. 9 WING CLUSTERS

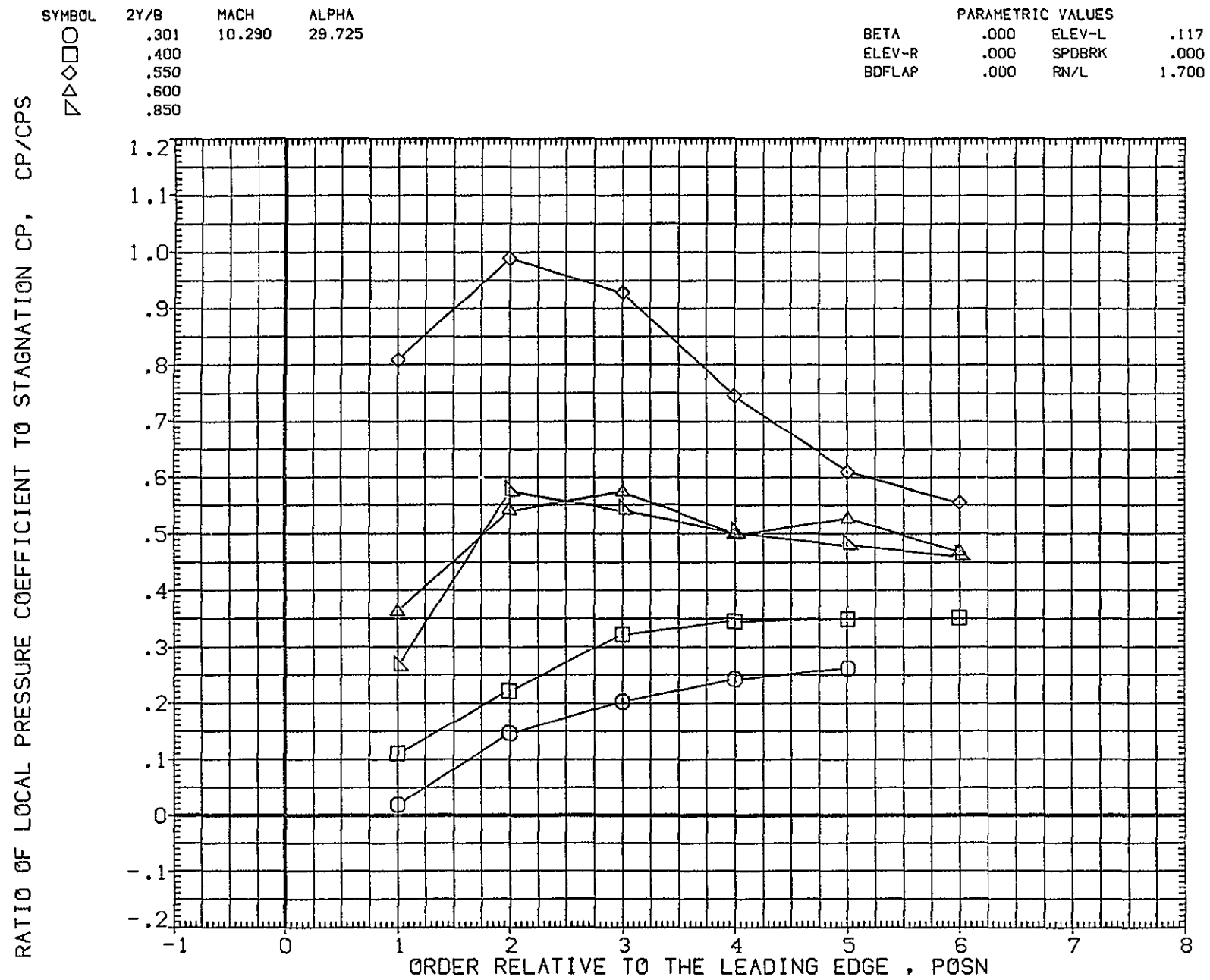


FIG. 9 WING CLUSTERS

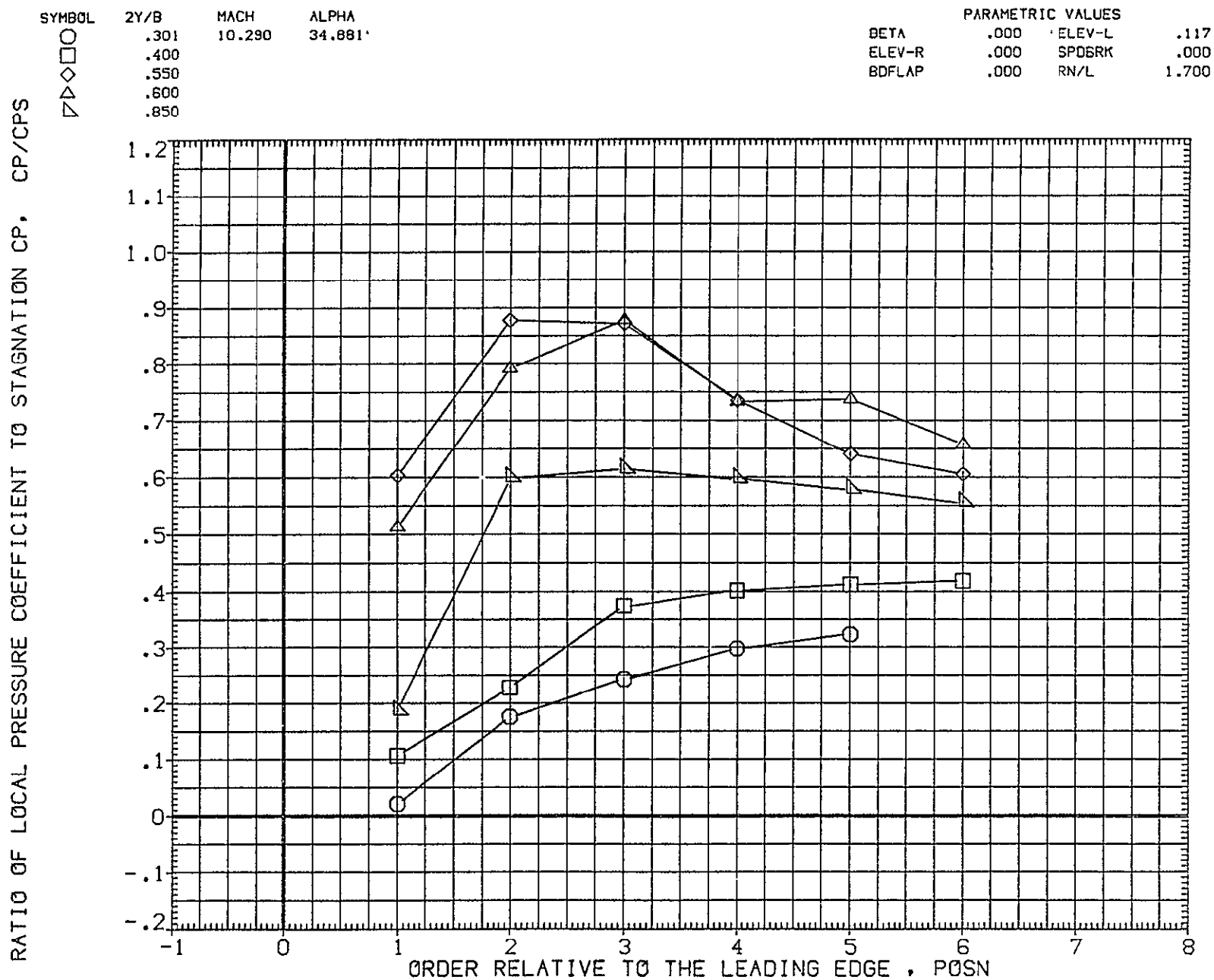


FIG. 9 WING CLUSTERS

SYMBOL

2Y/B

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

.117

ELEV-R

.000

SPDBRK

.000

BDFLAP

.000

RN/L

1.700

○  
□  
◇  
△  
▽

.301

10.290

39.932

.400

.550

.600

.850

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

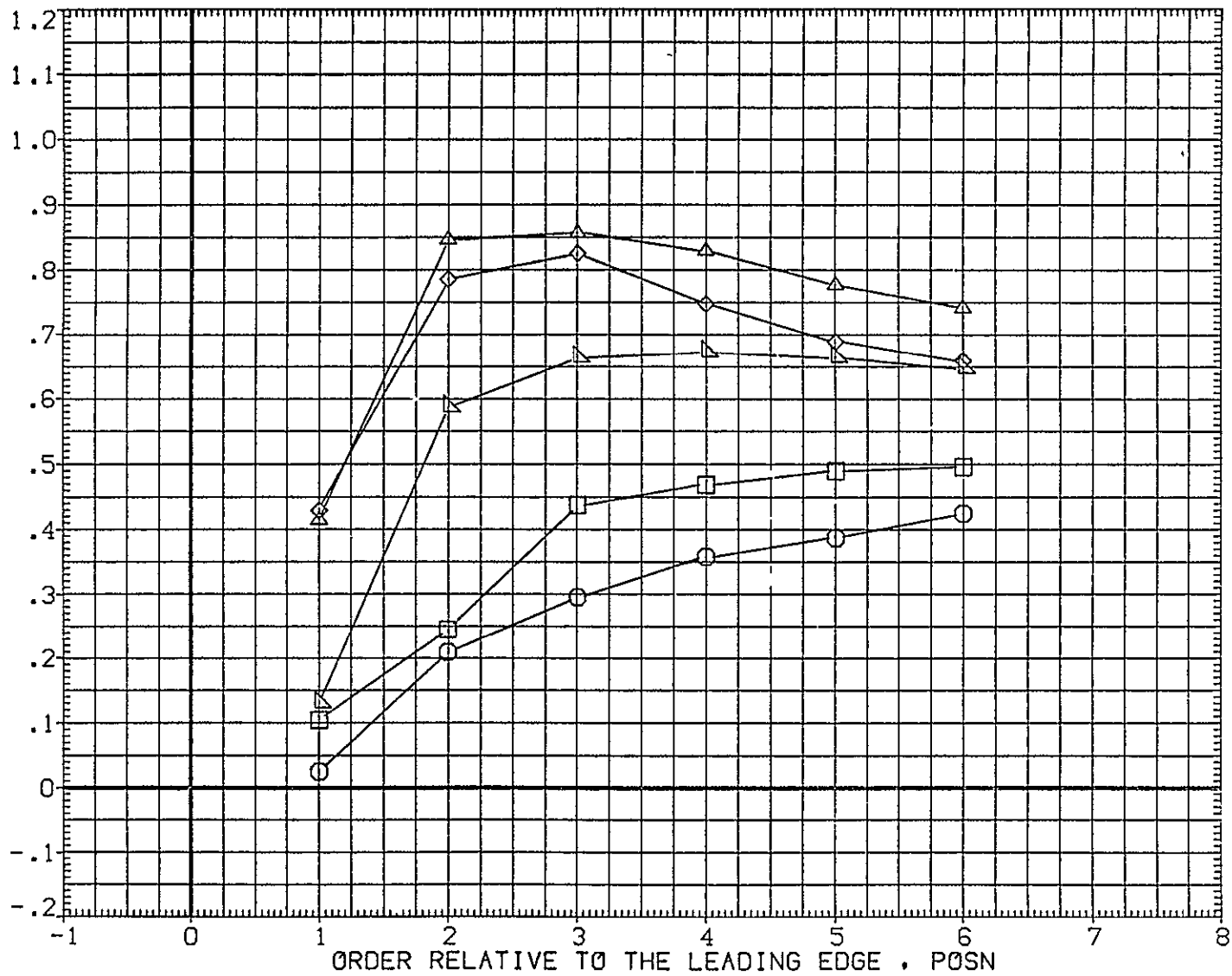


FIG. 9 WING CLUSTERS



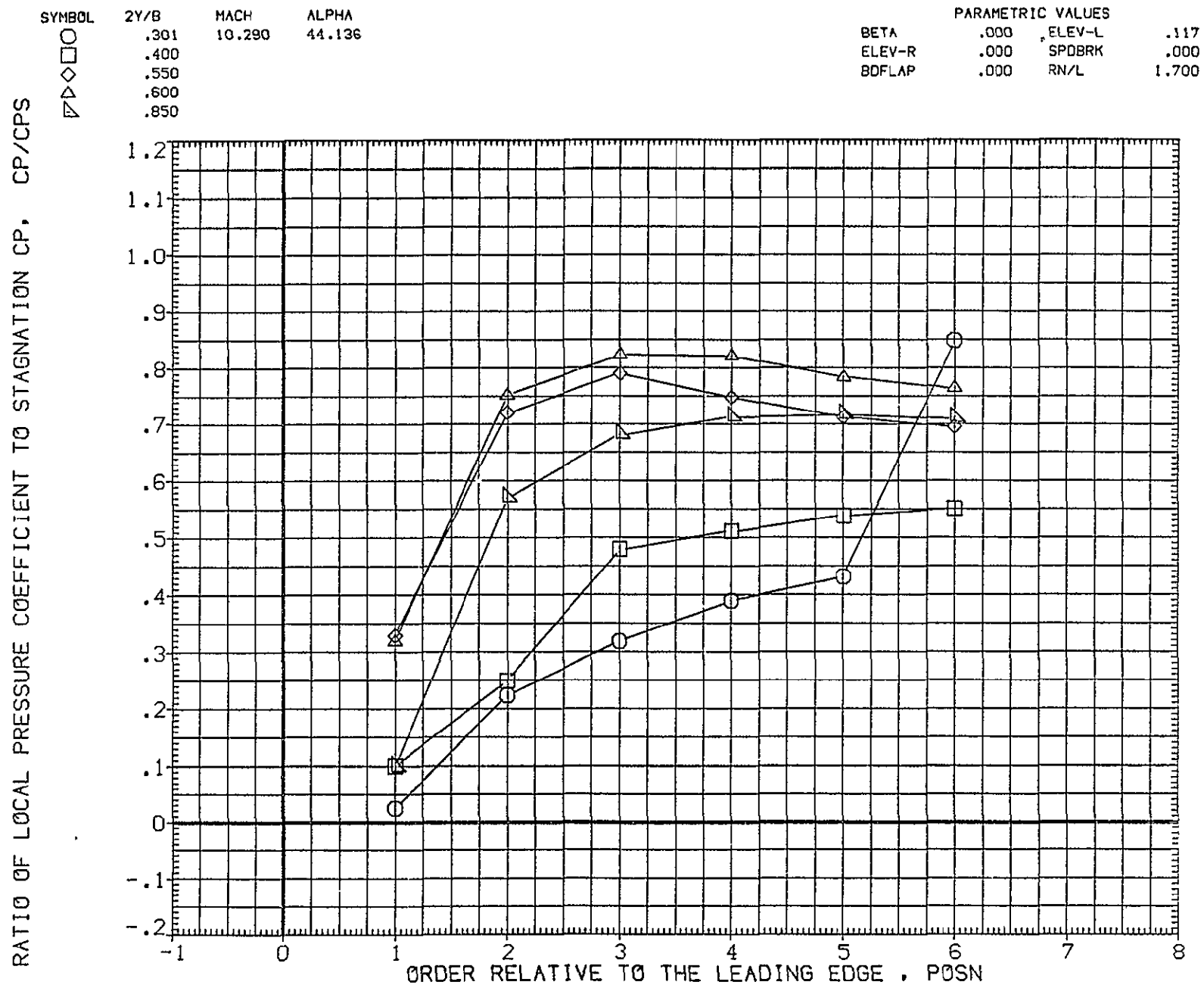


FIG. 9 WING CLUSTERS

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

.000

ELEV-R

.000

SPDBRK

41.533

BDFLAP

15.667

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

□  
 ◇  
 △  
 ▽  
 ○

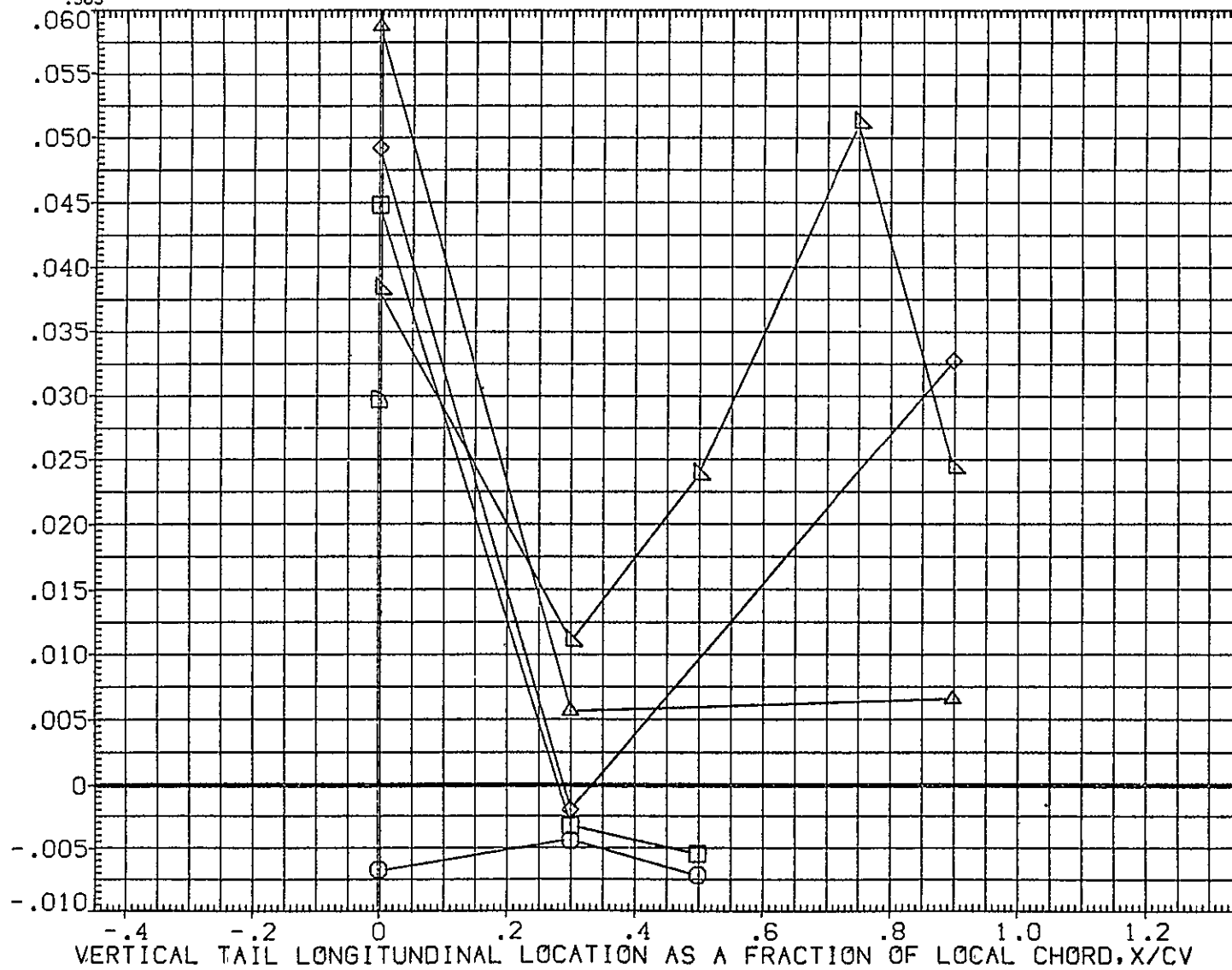


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(BEZI35)

SYMBOL  
○ □ ◇ △ ▽ ▿

Z/BV  
000  
.150  
299  
.532  
765  
905

MACH  
7.320

ALPHA  
24.886

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

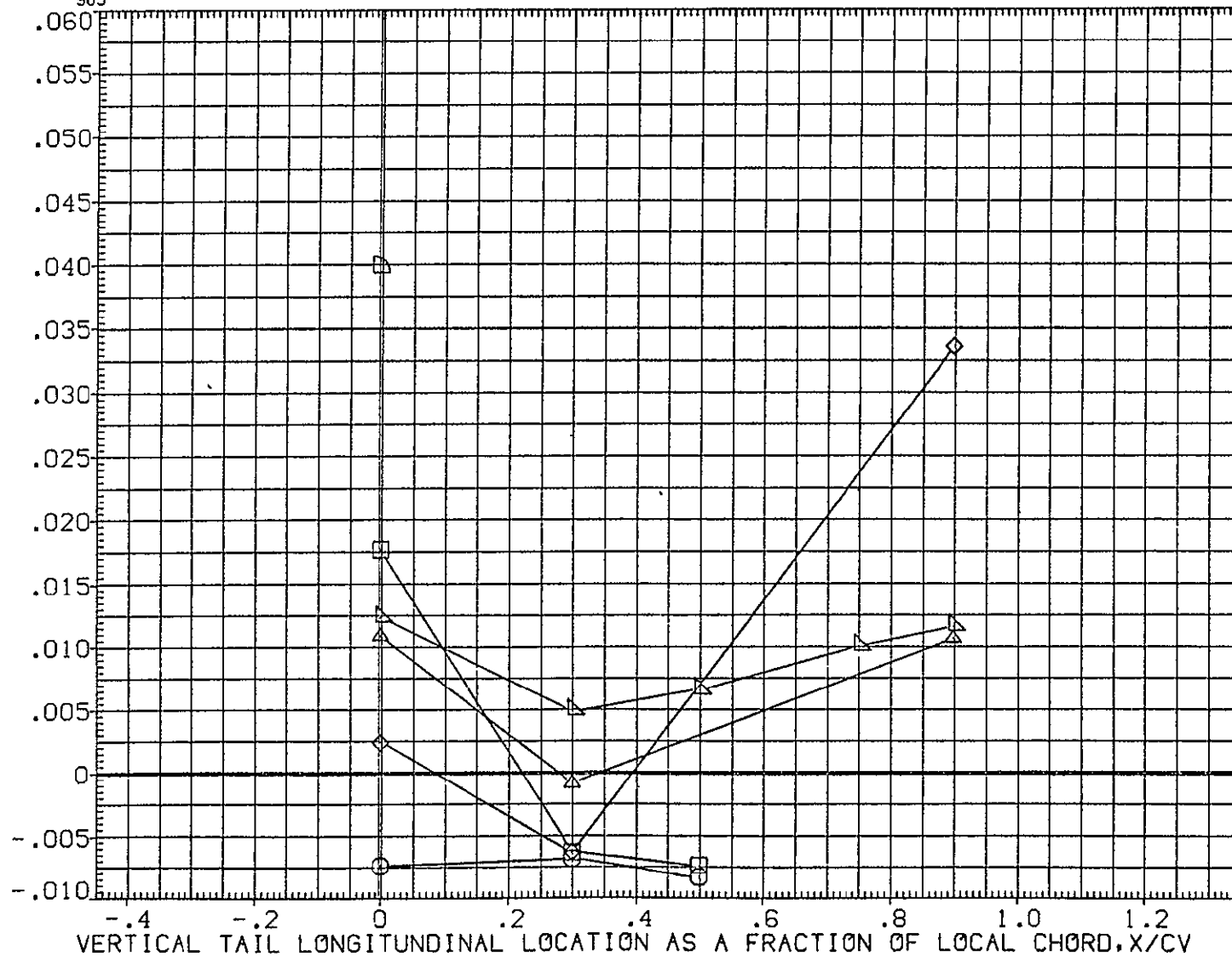


FIG. 10 VERTICAL TAIL

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

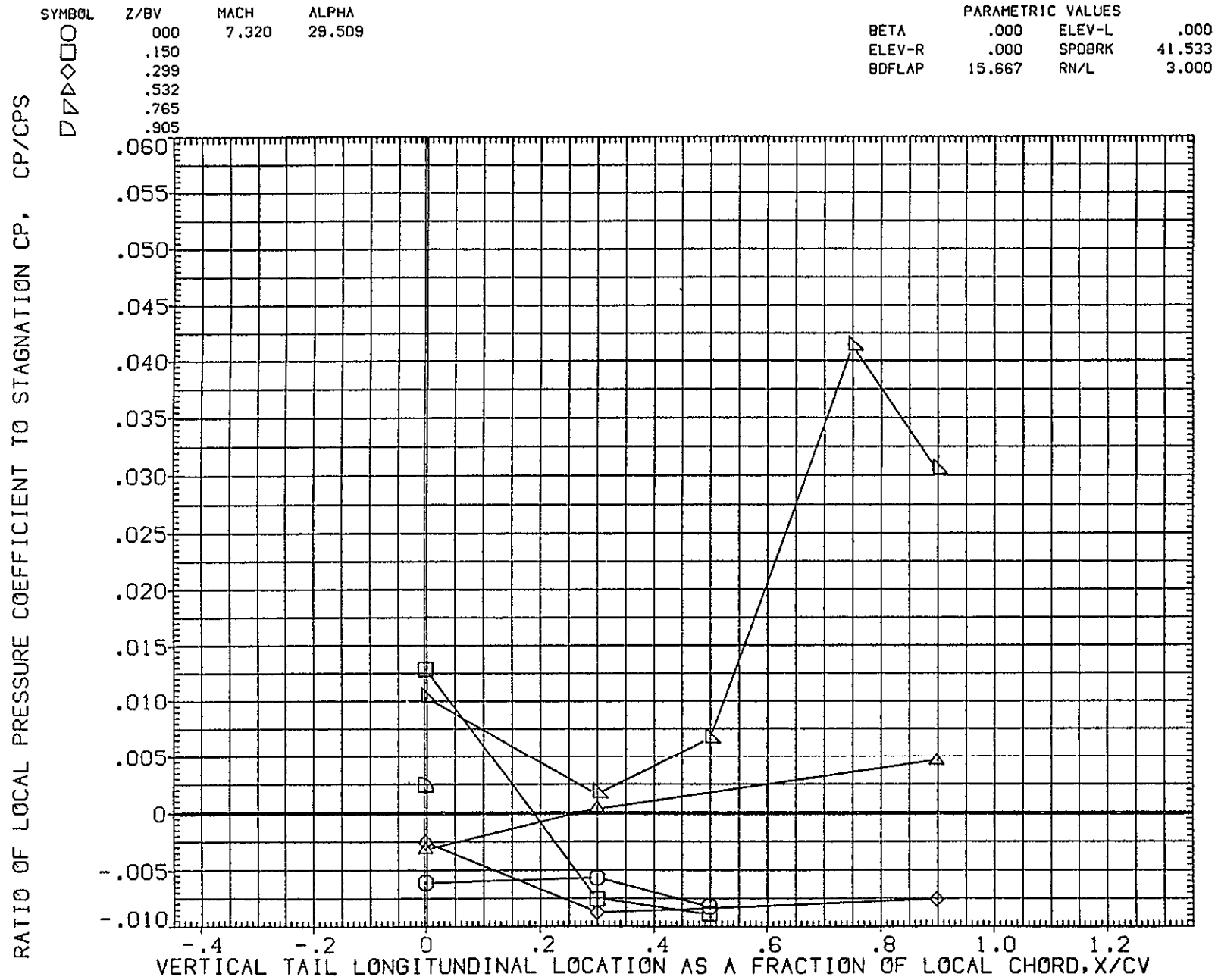


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(BEZI35)

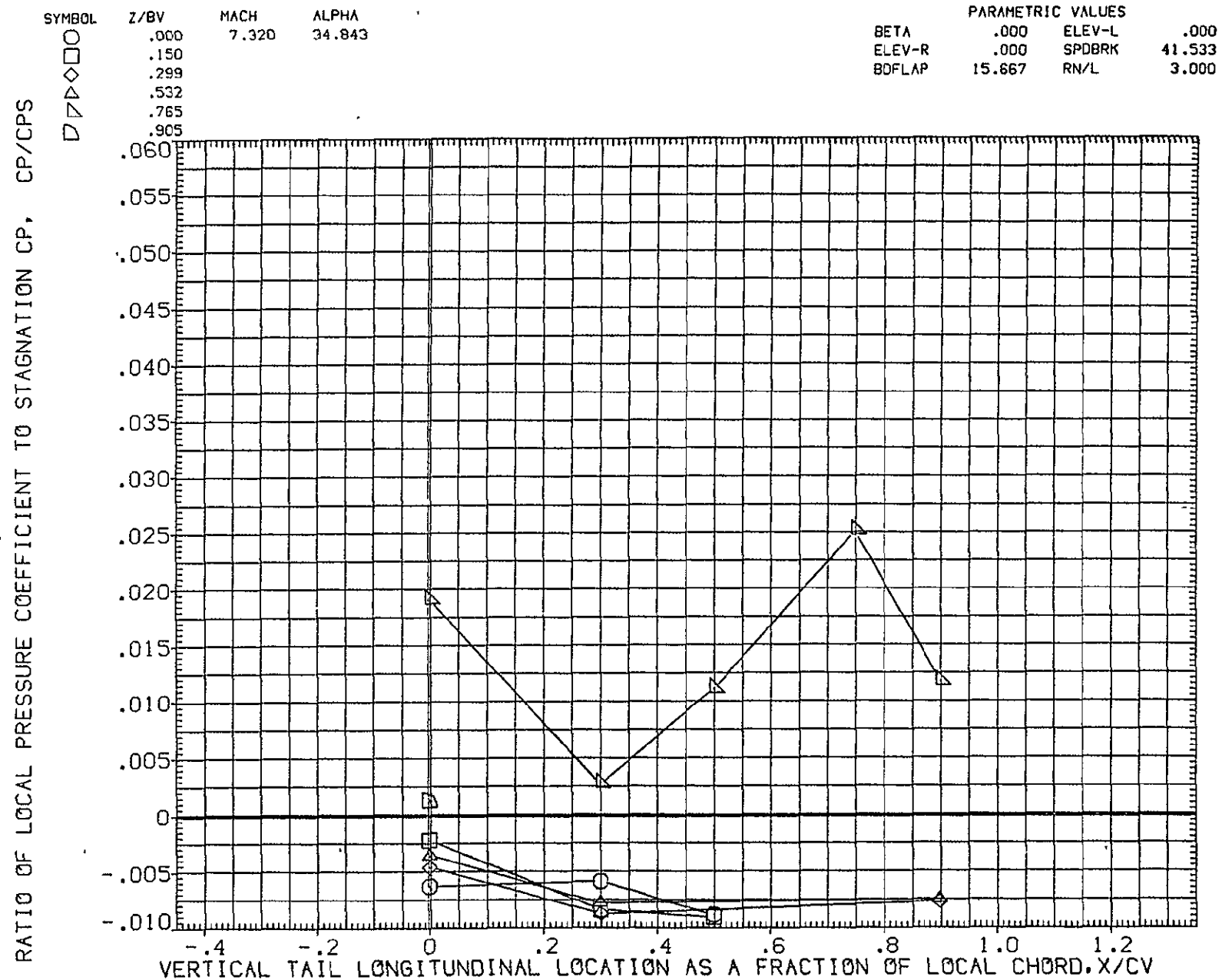


FIG. 10 VERTICAL TAIL

SYMBOL	Z/BV	MACH	ALPHA
□	.000	7.320	39.947
◇	.150		
△	.299		
▽	.532		
◇	.765		
□	.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPOBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

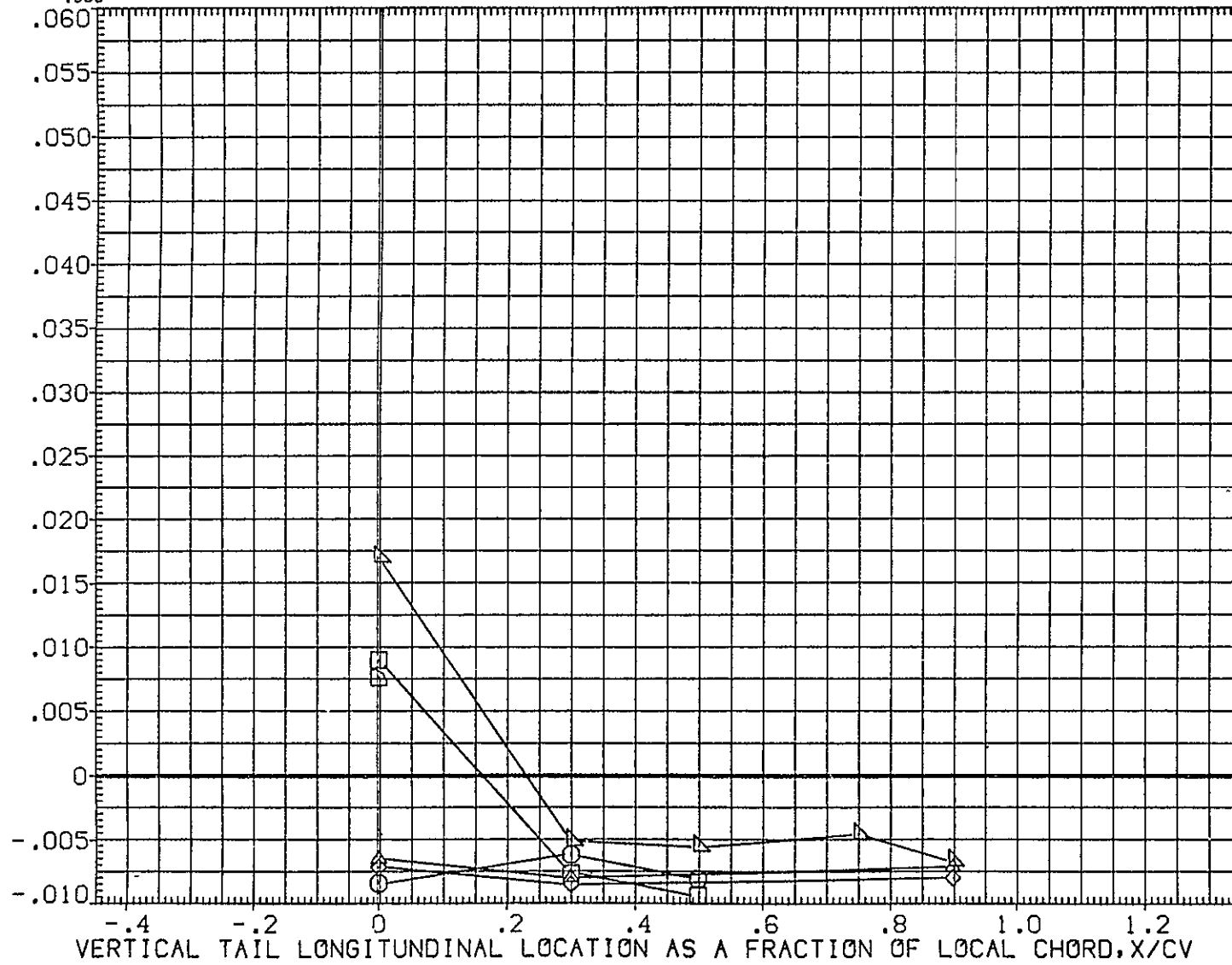


FIG. 10 VERTICAL TAIL

# ARC 3.5-198 OH38 140C ORB VERTICAL TAIL

(BEZI35)

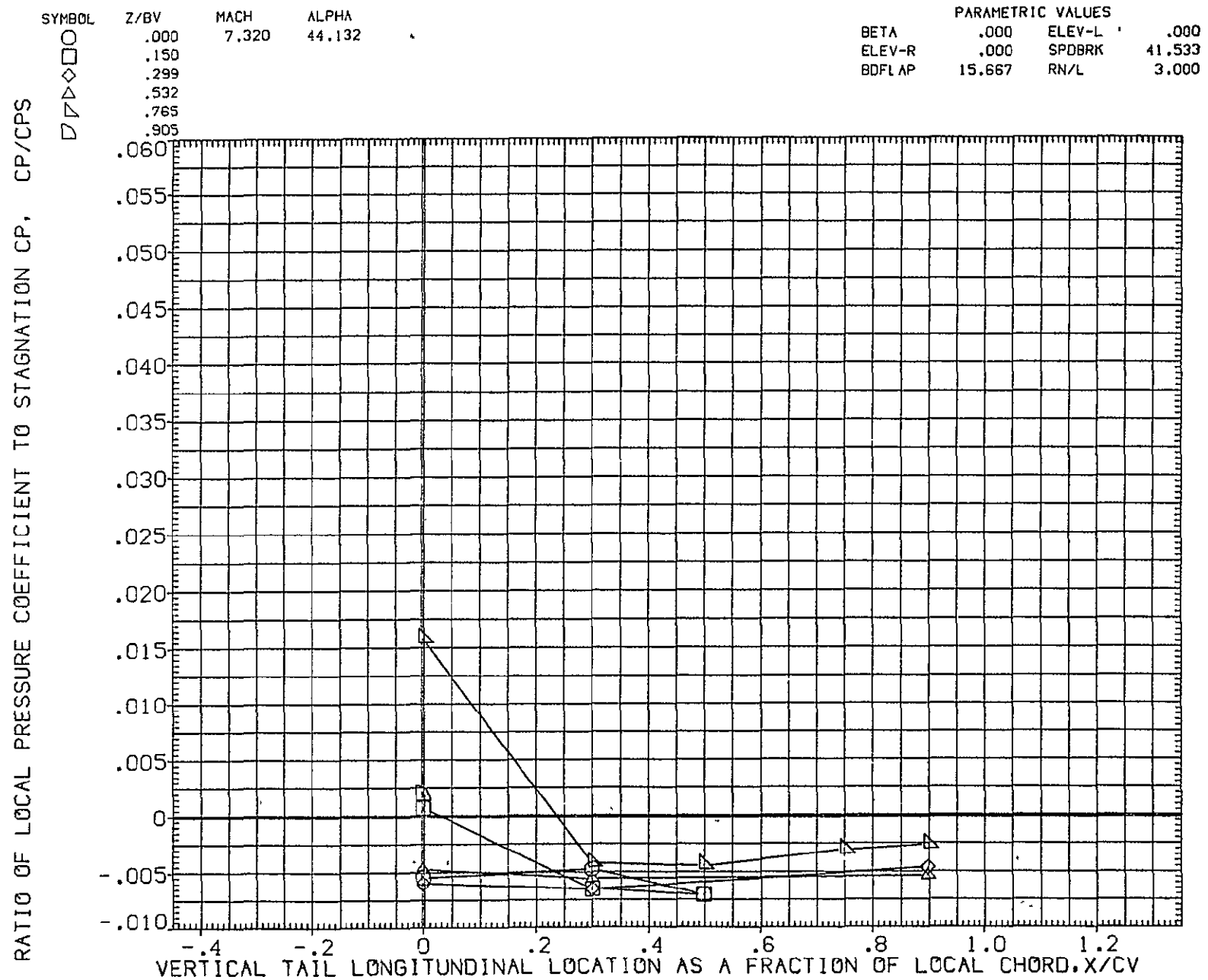


FIG. 10 VERTICAL TAIL

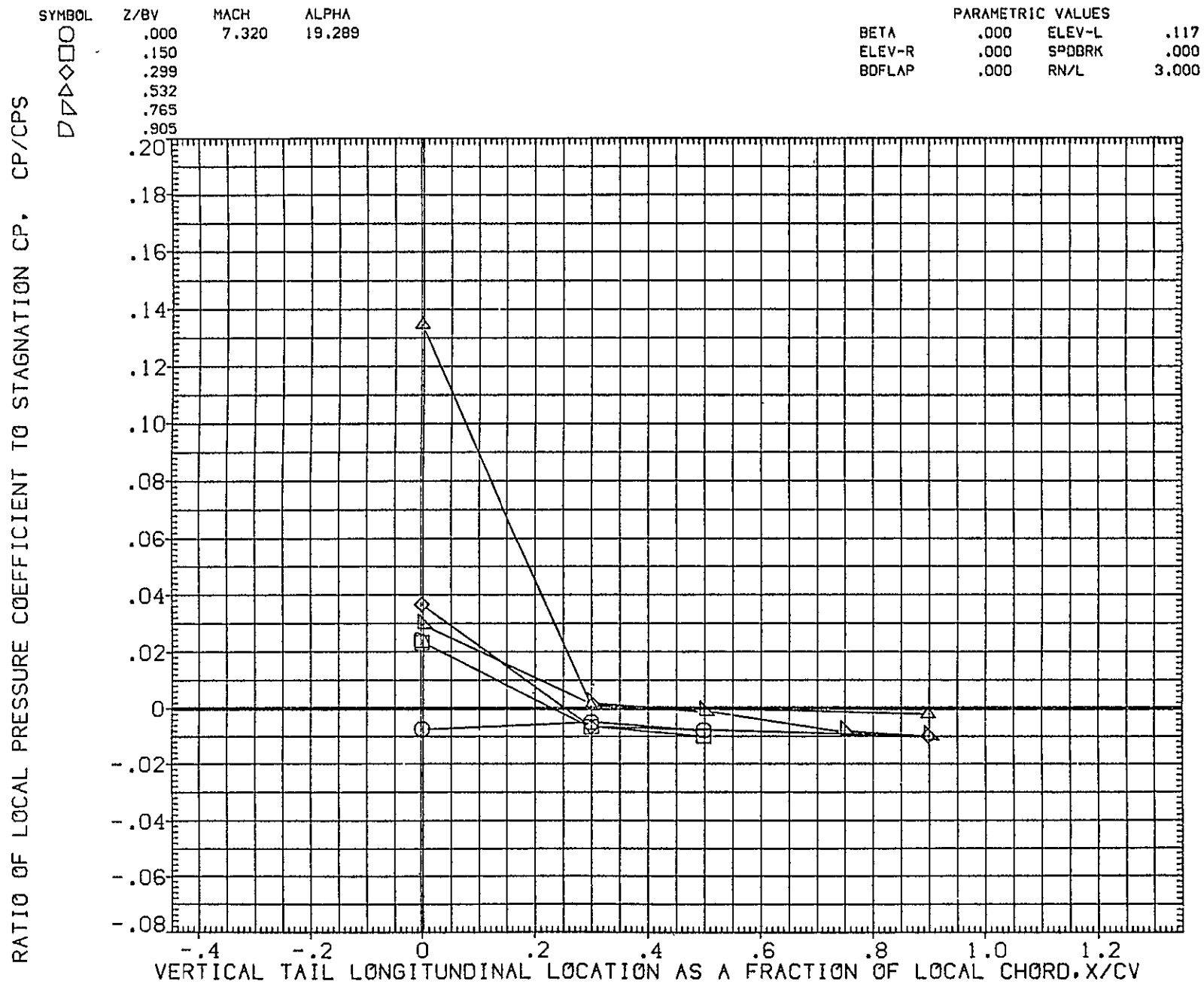
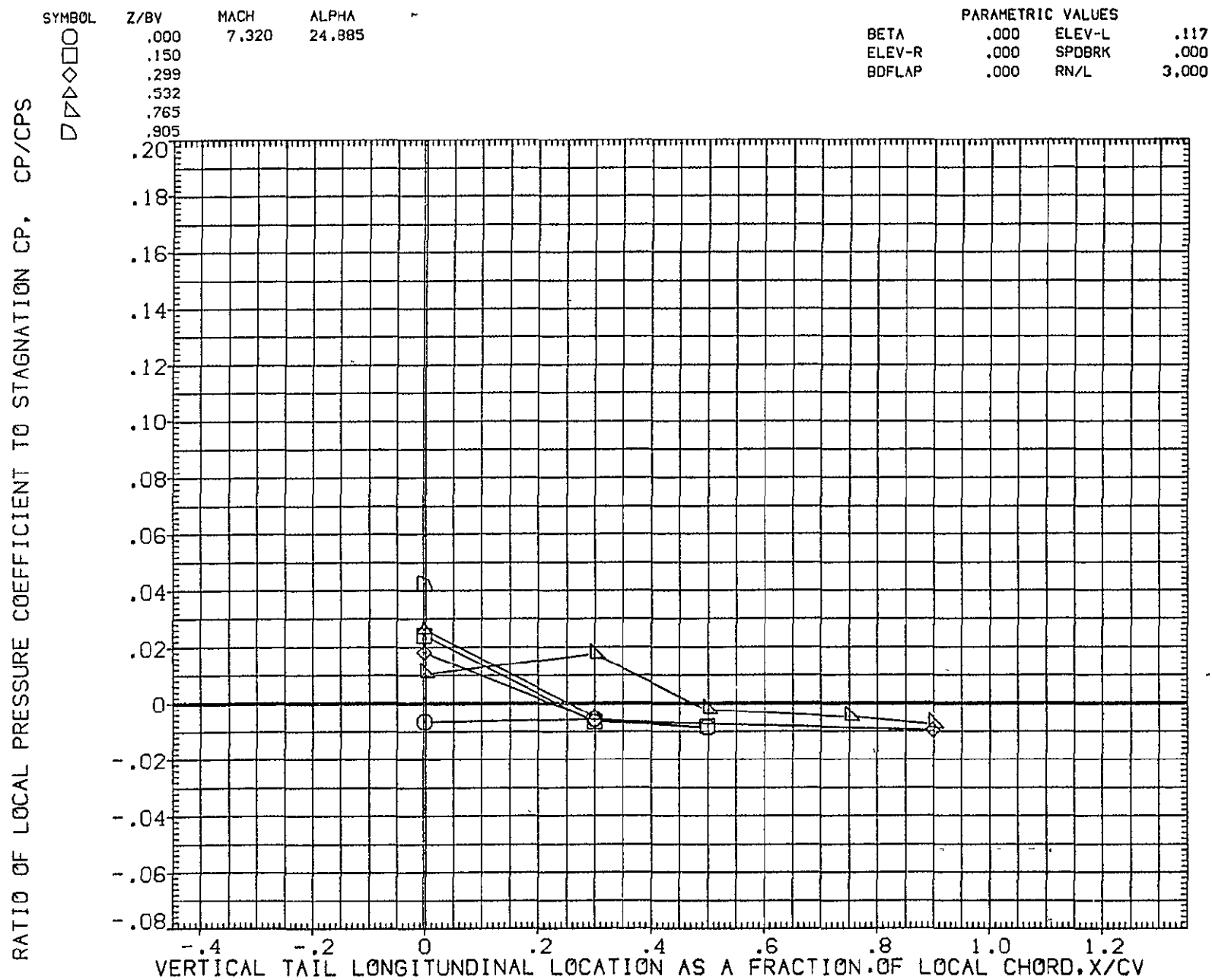


FIG. 10 VERTICAL TAIL





SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

.117

ELEV-R

.000

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\square$   $\square$   
 $\nabla$   $\triangle$   $\square$   $\square$   
 $\square$   $\square$   $\square$   $\square$

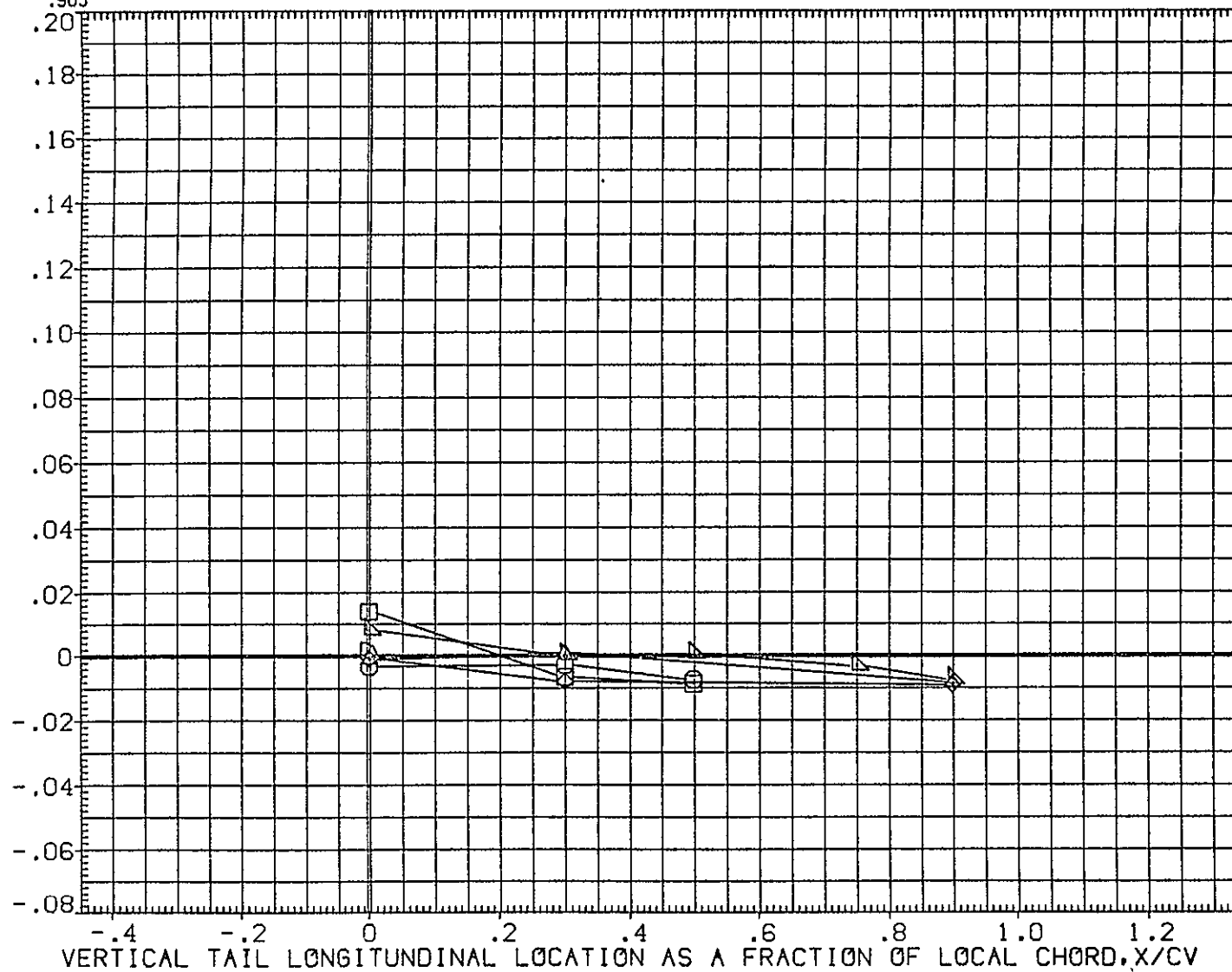


FIG. 10 VERTICAL TAIL

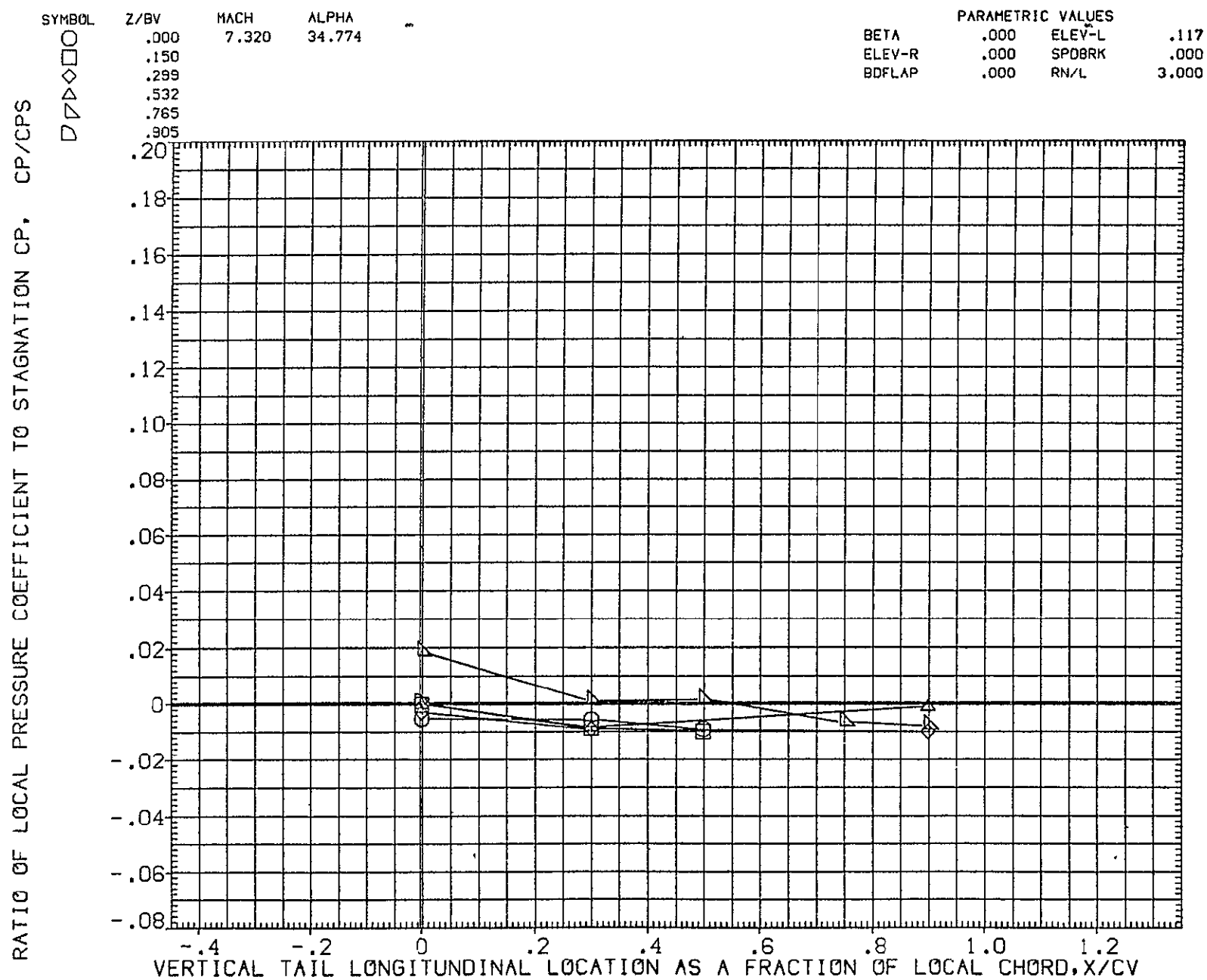


FIG. 10 VERTICAL TAIL

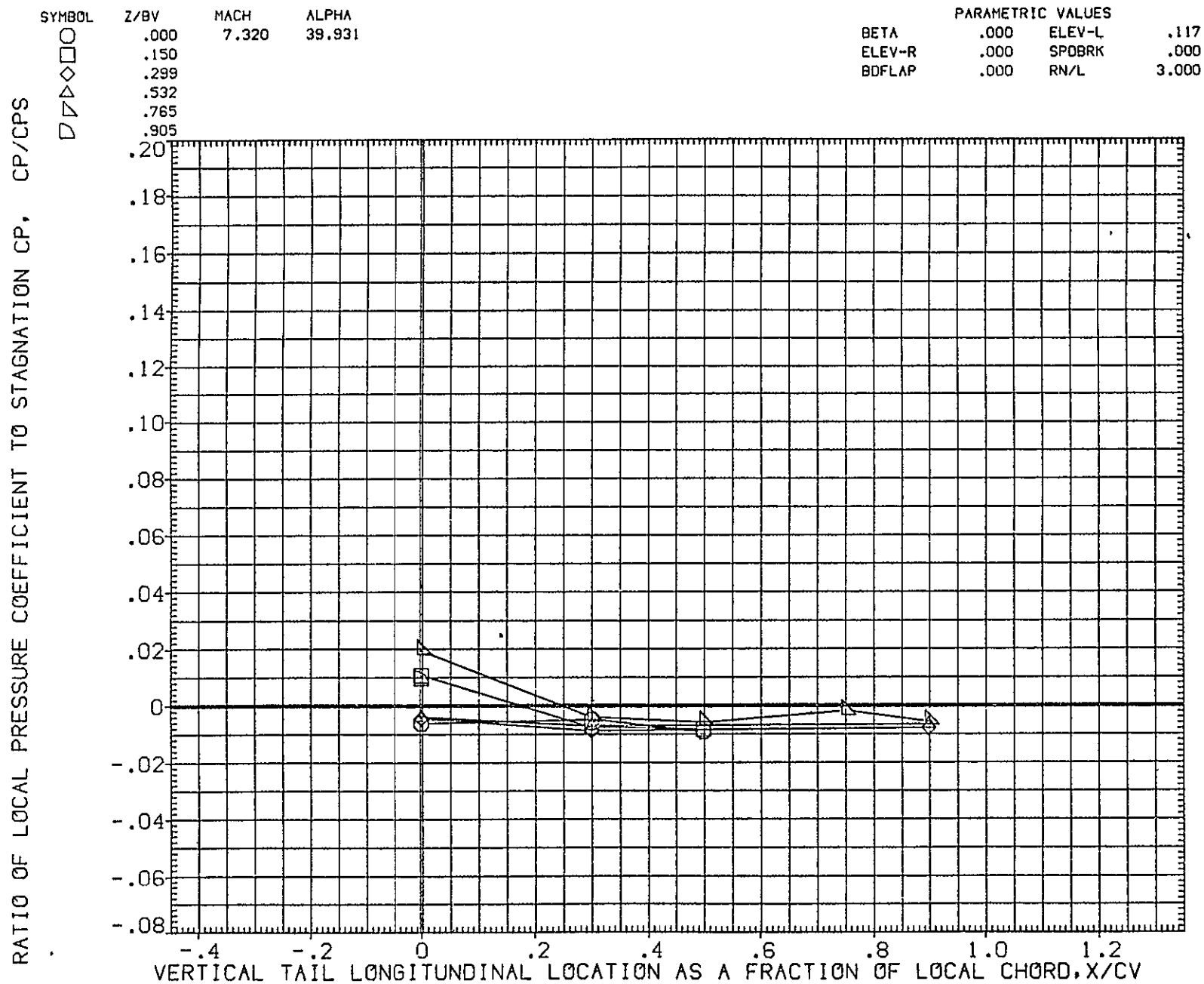


FIG. 10 VERTICAL TAIL

SYMBOL	Z/BV	MACH	ALPHA
○	.000	7.320	44.104
□	.150		
◇	.299		
△	.532		
▽	.765		
▽	.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

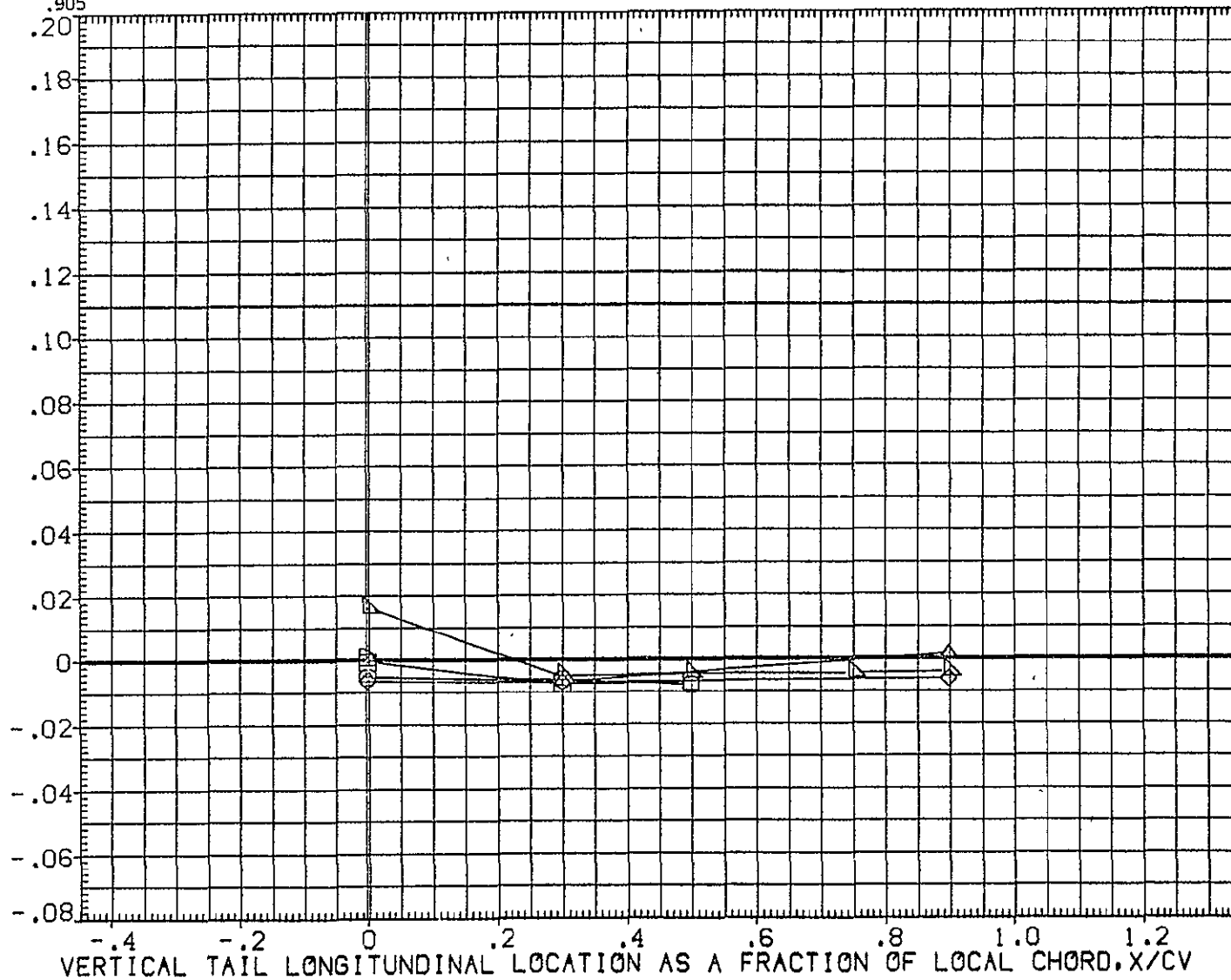


FIG. 10 VERTICAL TAIL

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

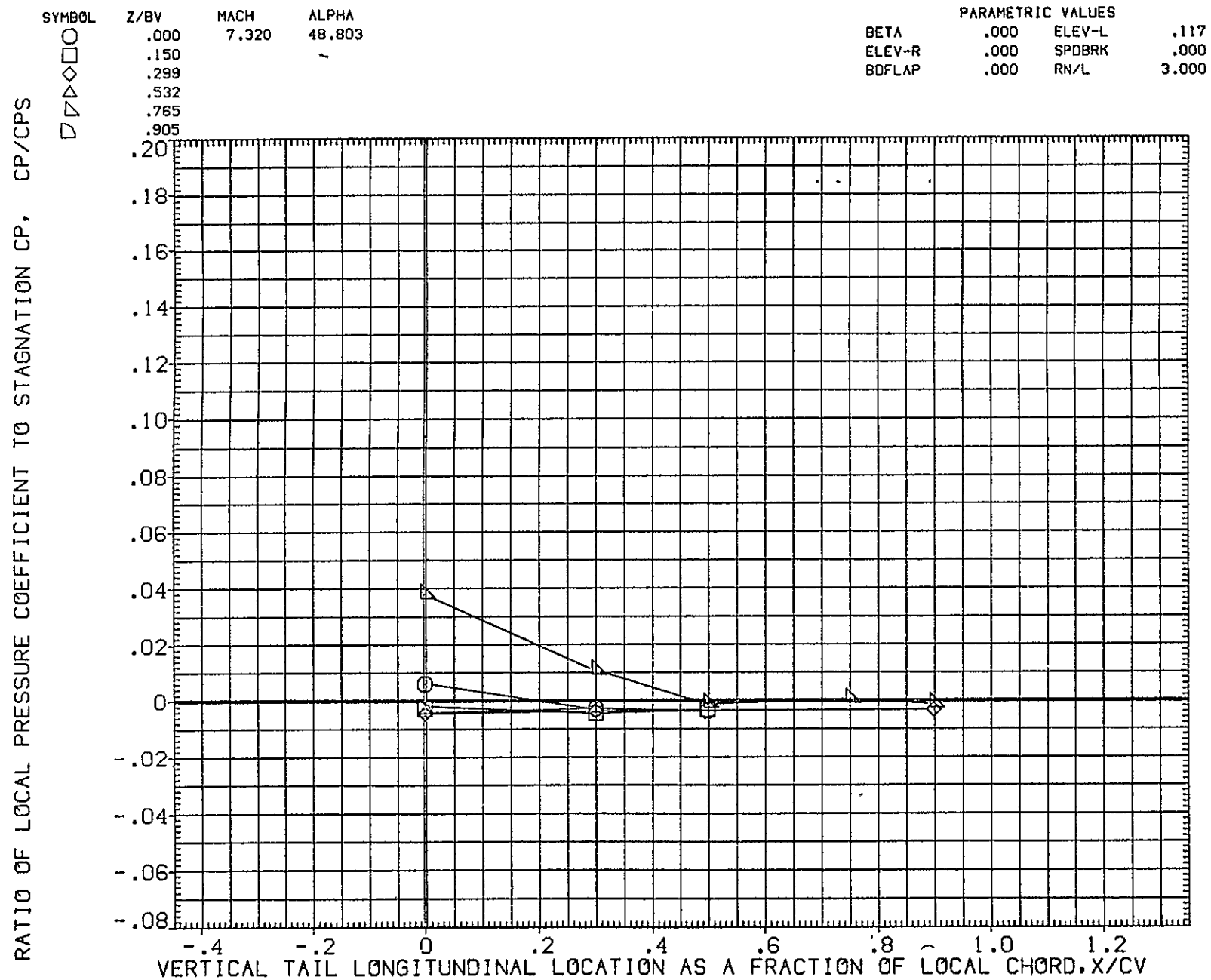


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(PEZIO4)

SYMBOL

Z/BV

MACH

ALPHA

BETA

PARAMETRIC VALUES

ELEV-R

SPDBRK

BDFLAP

RN/L

.117

.000

6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

○  
◇  
△  
▽  
□

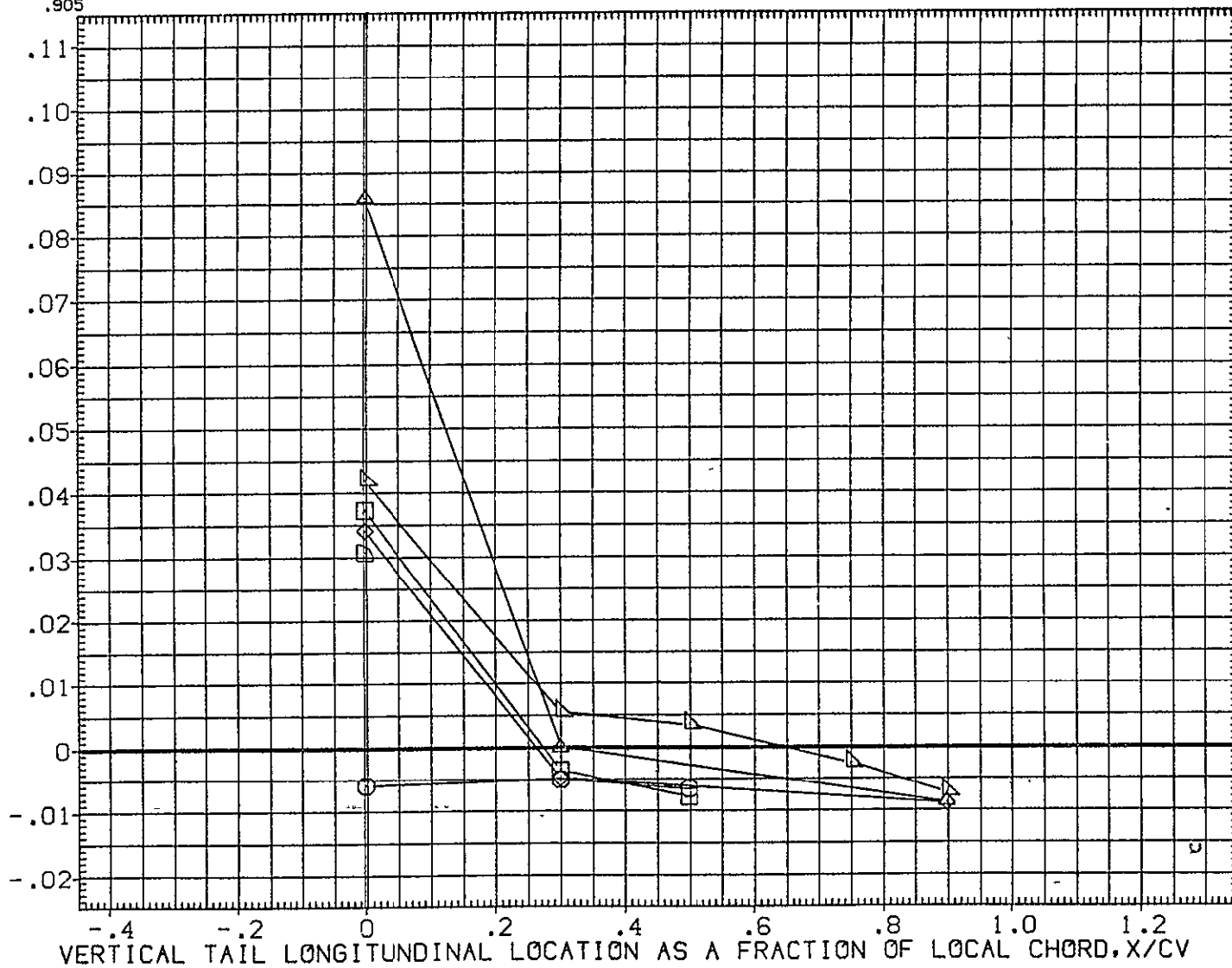


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

.117

ELEV-R

.000

SPDBRK

.000

BOFLAP

.000

RN/L

6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\nabla$   $\triangle$   $\square$   $\circ$   
 $\nabla$   $\triangle$   $\square$   $\circ$

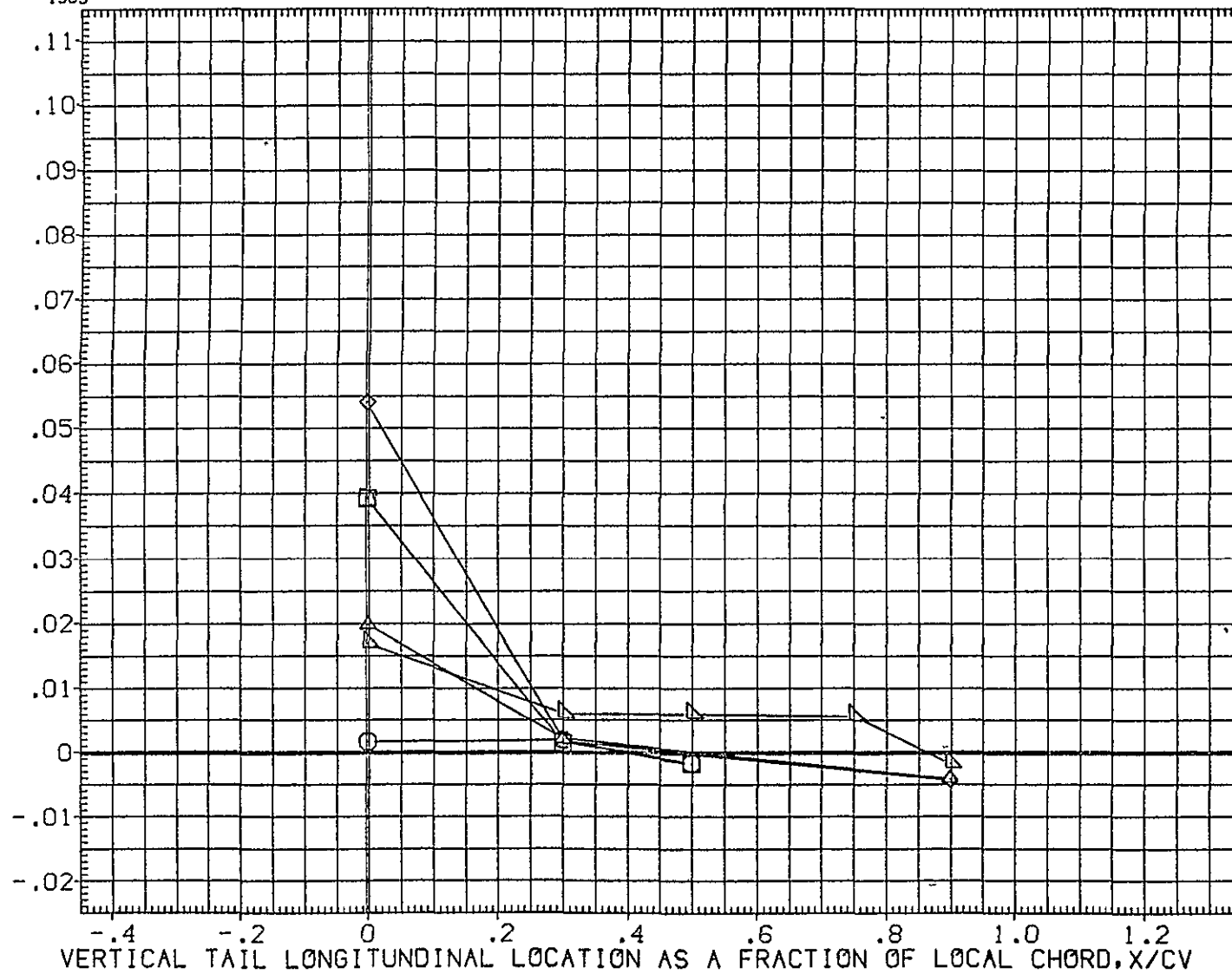


FIG. 10 VERTICAL TAIL



ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(PEZIO4)

SYMBOL  
 $\square$   $\diamond$   $\triangle$   $\square$   $\square$   
 $\square$   $\triangle$   $\square$   $\square$   $\square$

Z/BV	MACH	ALPHA
.000	7.320	29.649
.150		
.299		
.532		
.765		
.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

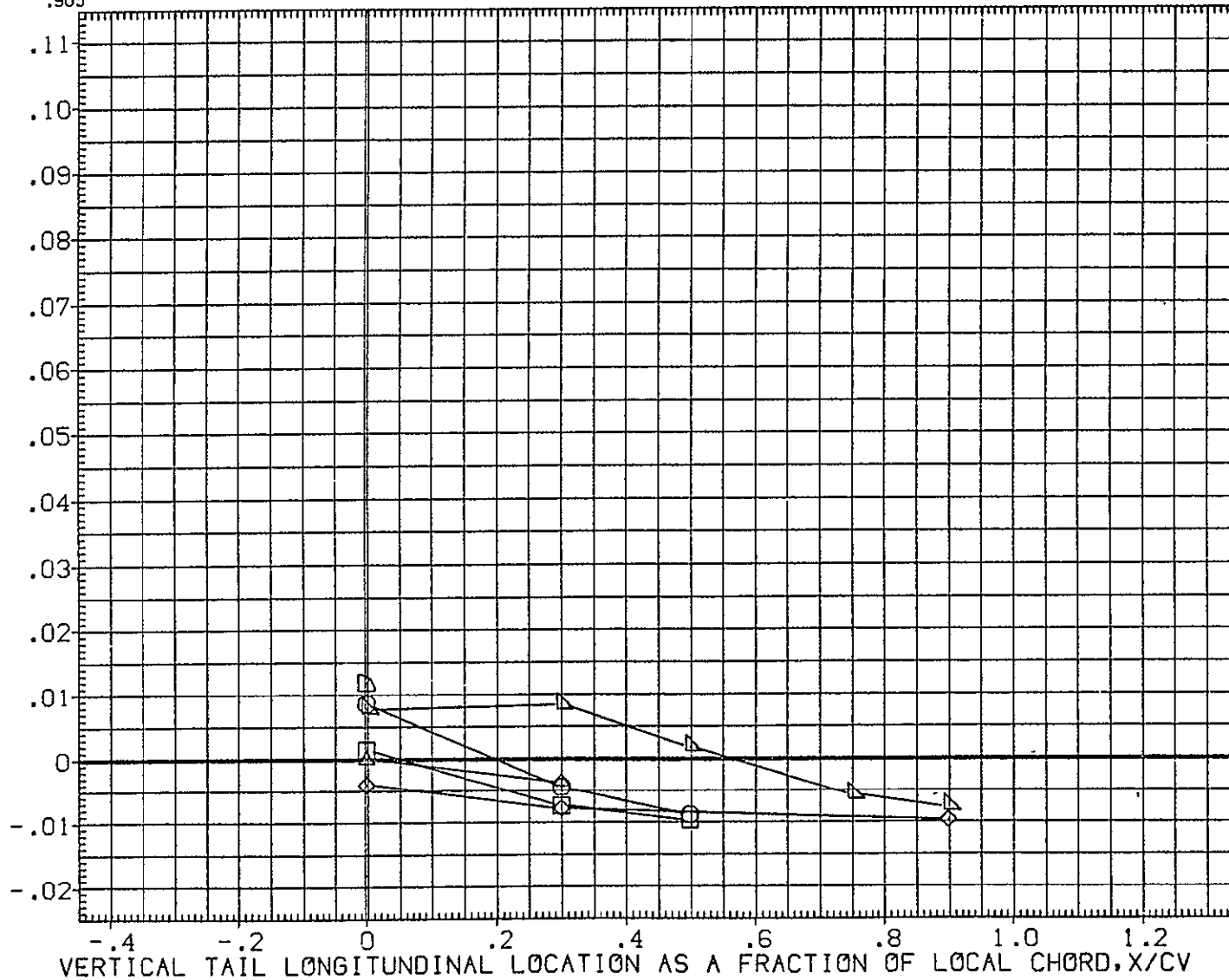


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

$\square$   $\diamond$   $\square$   $\square$   
 $\nabla$   $\triangle$   $\diamond$   $\square$

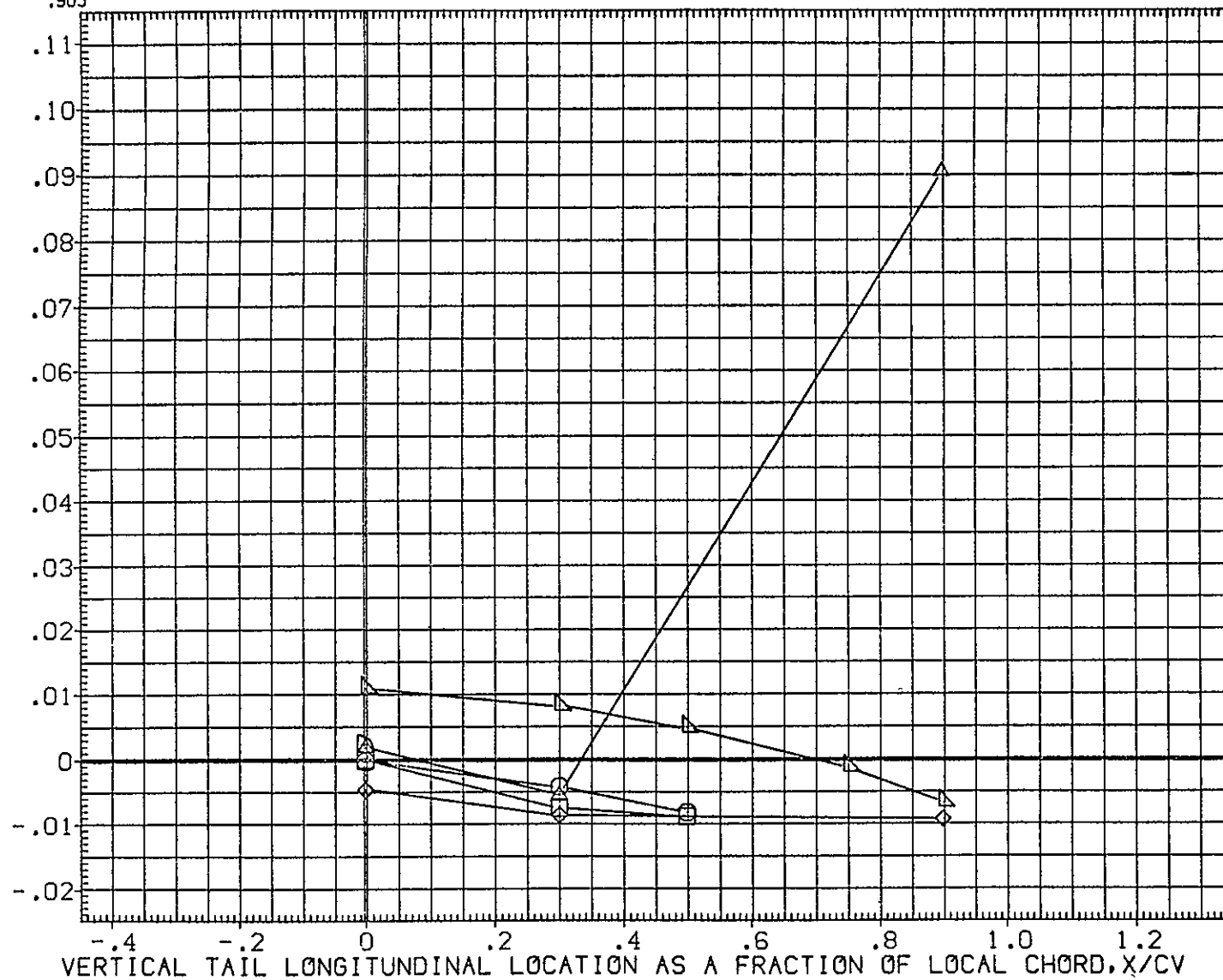


FIG. 10 VERTICAL TAIL

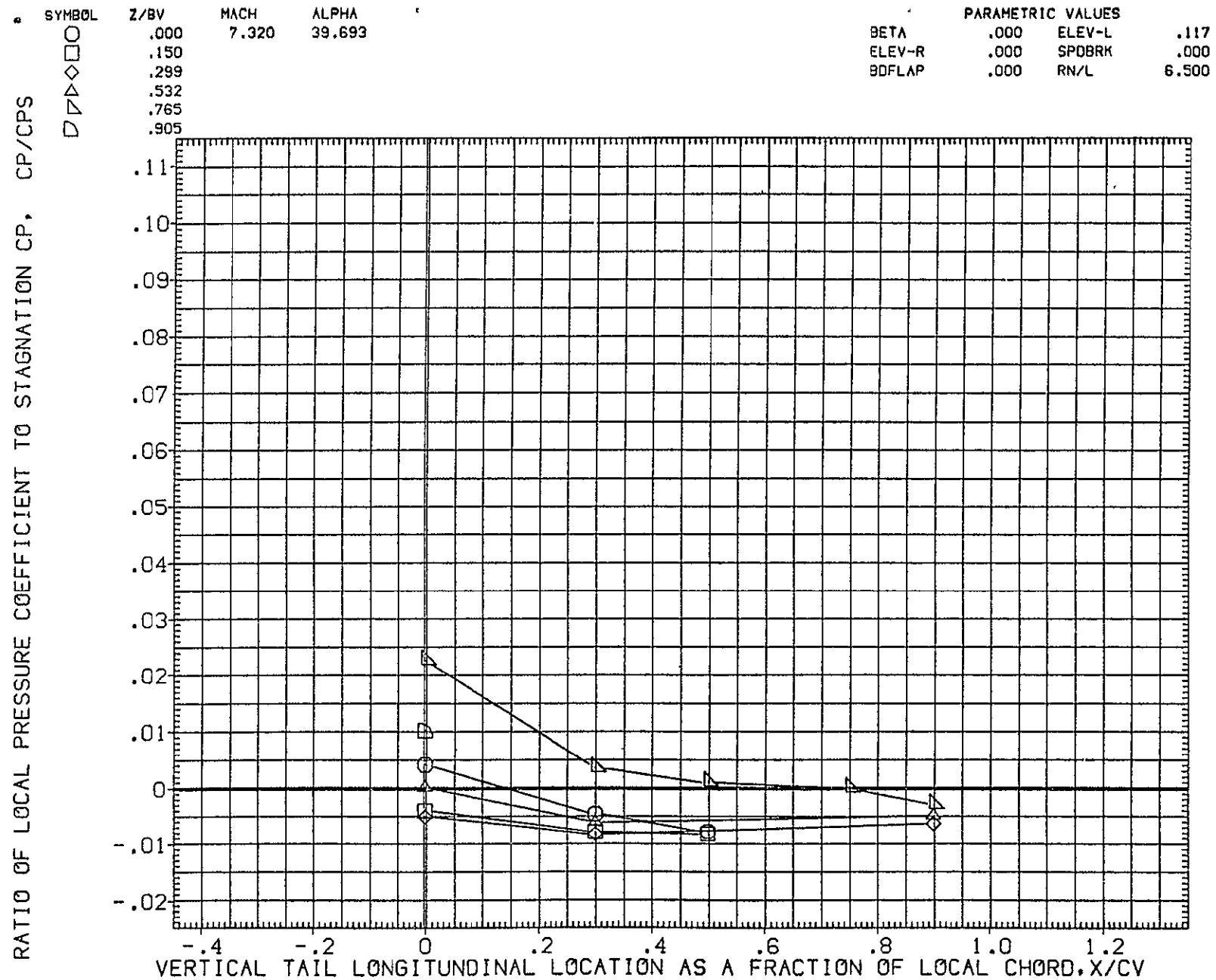


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

.117

ELEV-R

.000

SPOBRK

.000

BDFLAP

.000

RN/L

6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\square$   $\square$   
 $\square$   $\diamond$   $\square$   $\square$   
 $\square$   $\diamond$   $\square$   $\square$

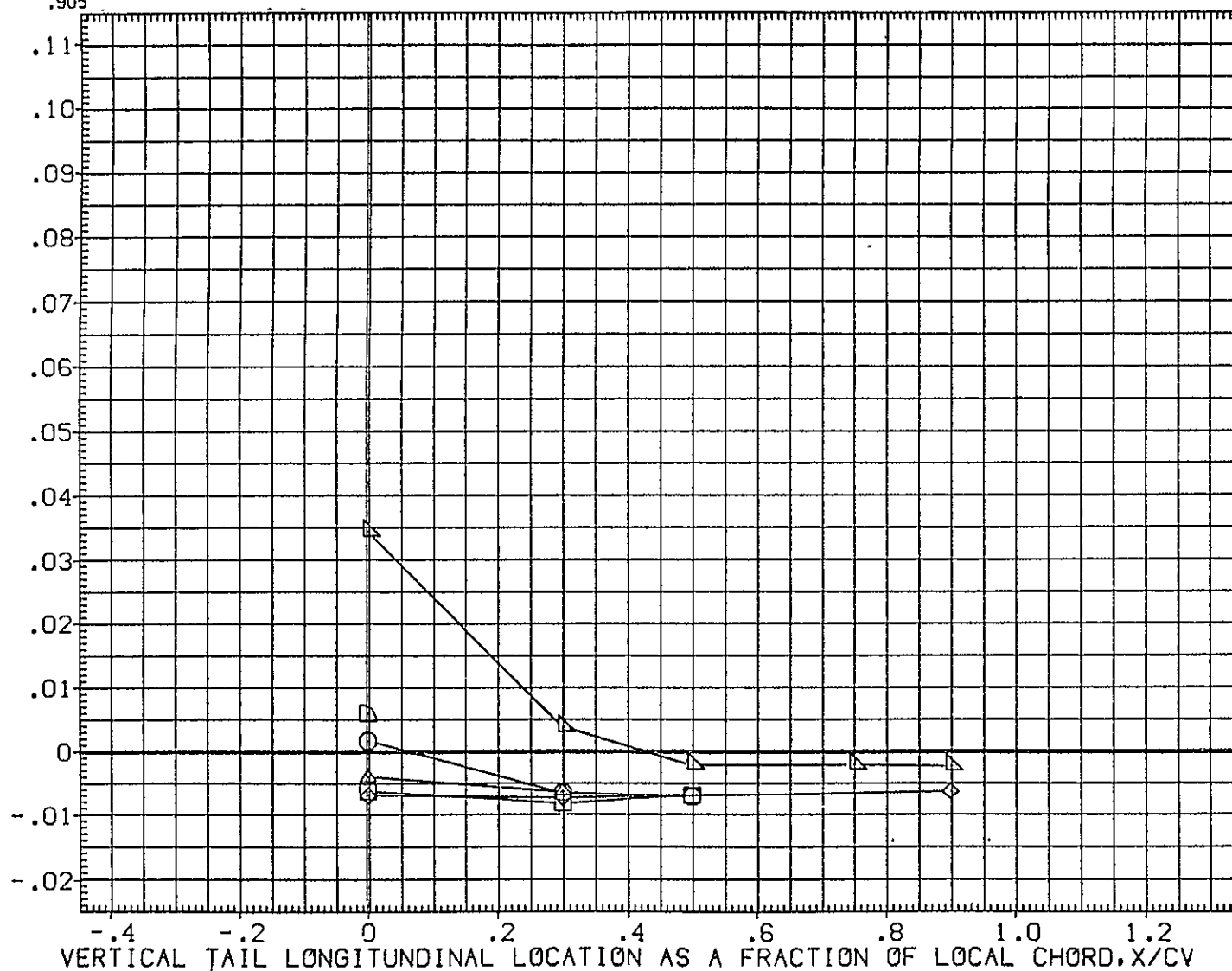


FIG. 10 VERTICAL TAIL

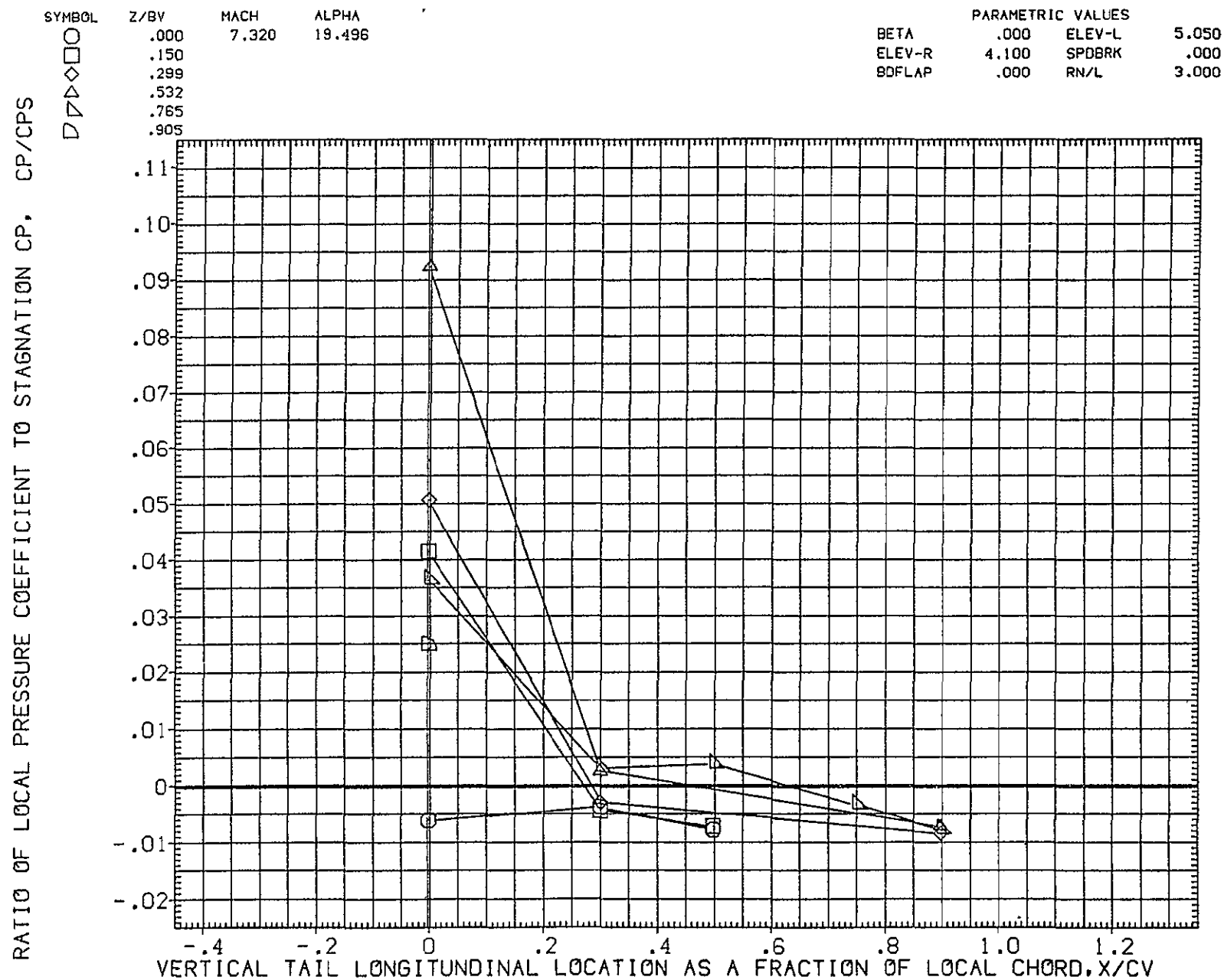


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

5.050

ELEV-R

4.100

SPDBRK

.000

BOFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\triangle$   $\diamond$   $\square$   $\square$   
 $\square$   $\triangle$   $\diamond$   $\square$   $\square$

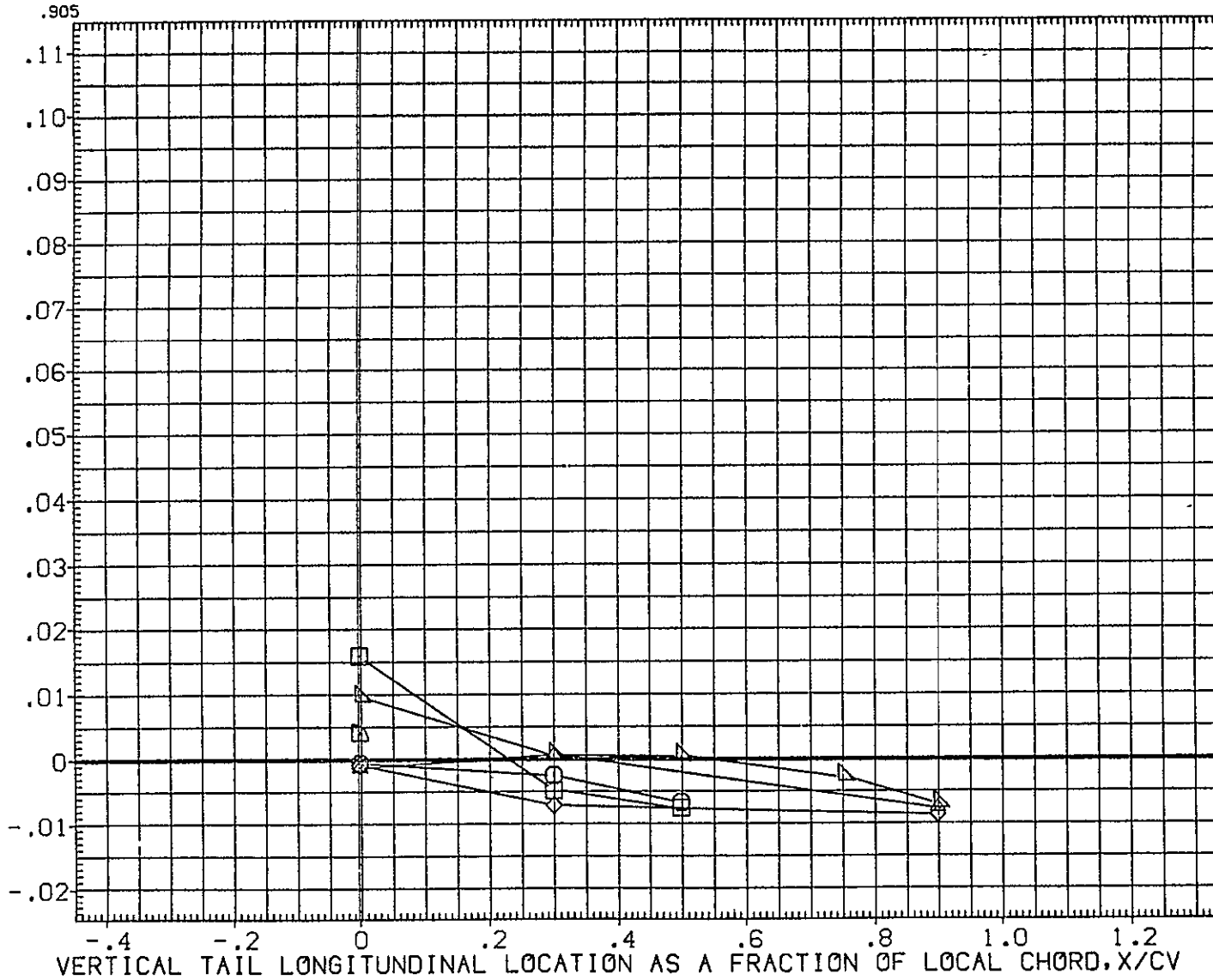


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

○  
□  
◇  
△  
▽  
▽  
▽

.000  
.150  
.299  
.532  
.765  
.905

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

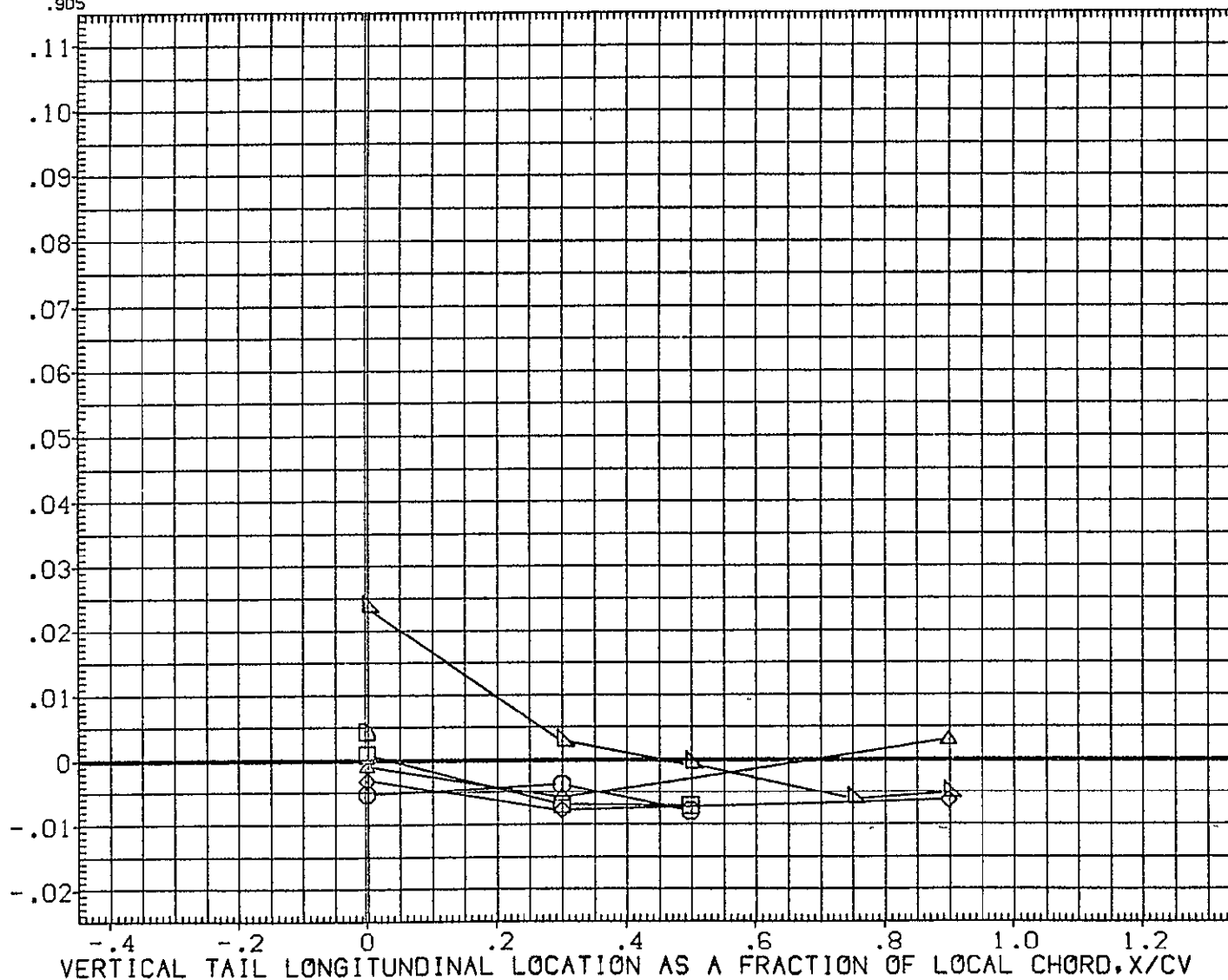


FIG. 10 VERTICAL TAIL

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Z/8V	MACH	ALPHA
.000	7.320	39.911
.150		
.299		
.532		
.765		
.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPOBRK	.000
BOFLAP	.000	RN/L	3.000

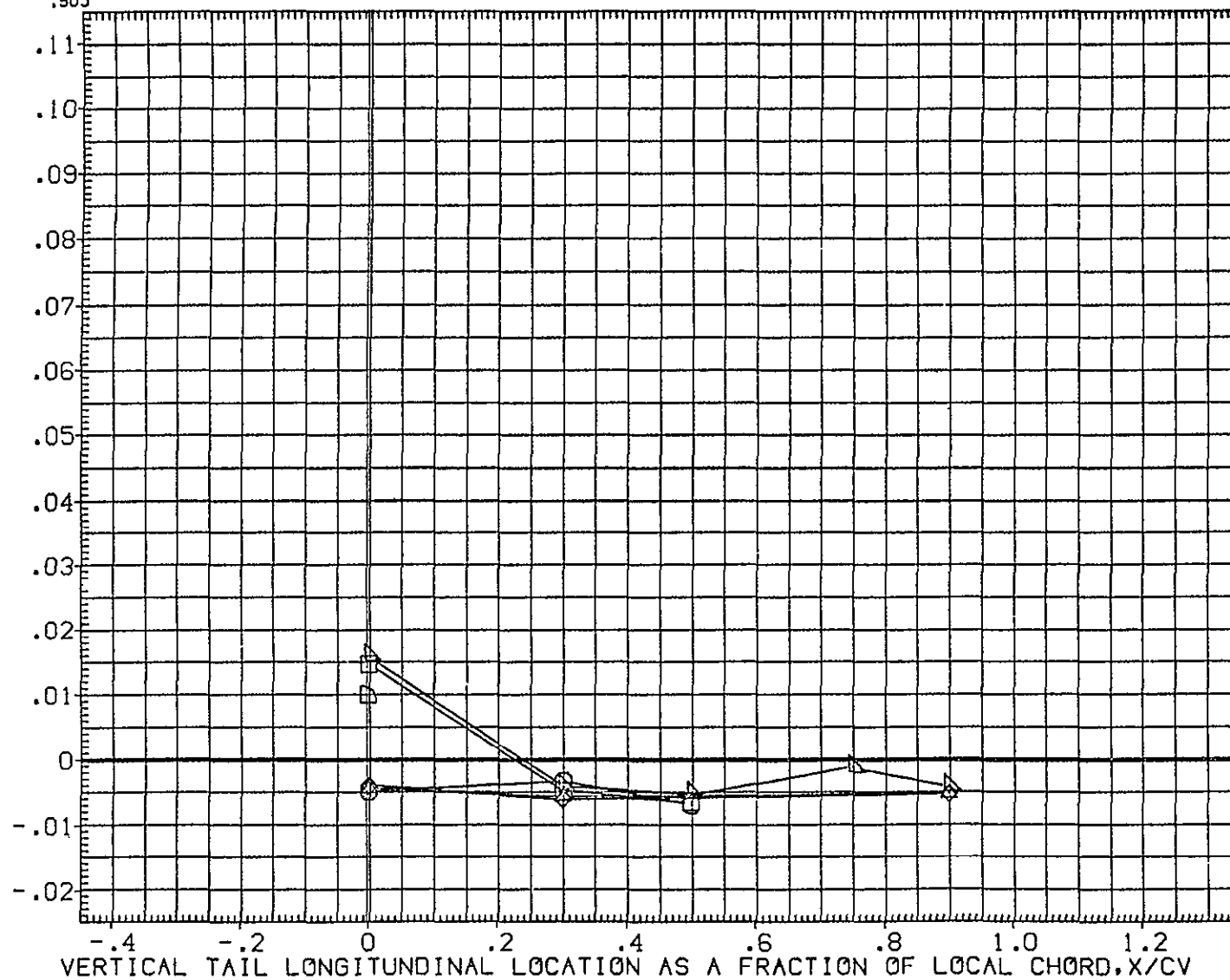
RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CP<sub>S</sub>

FIG. 10 VERTICAL TAIL



ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(CEZ105)

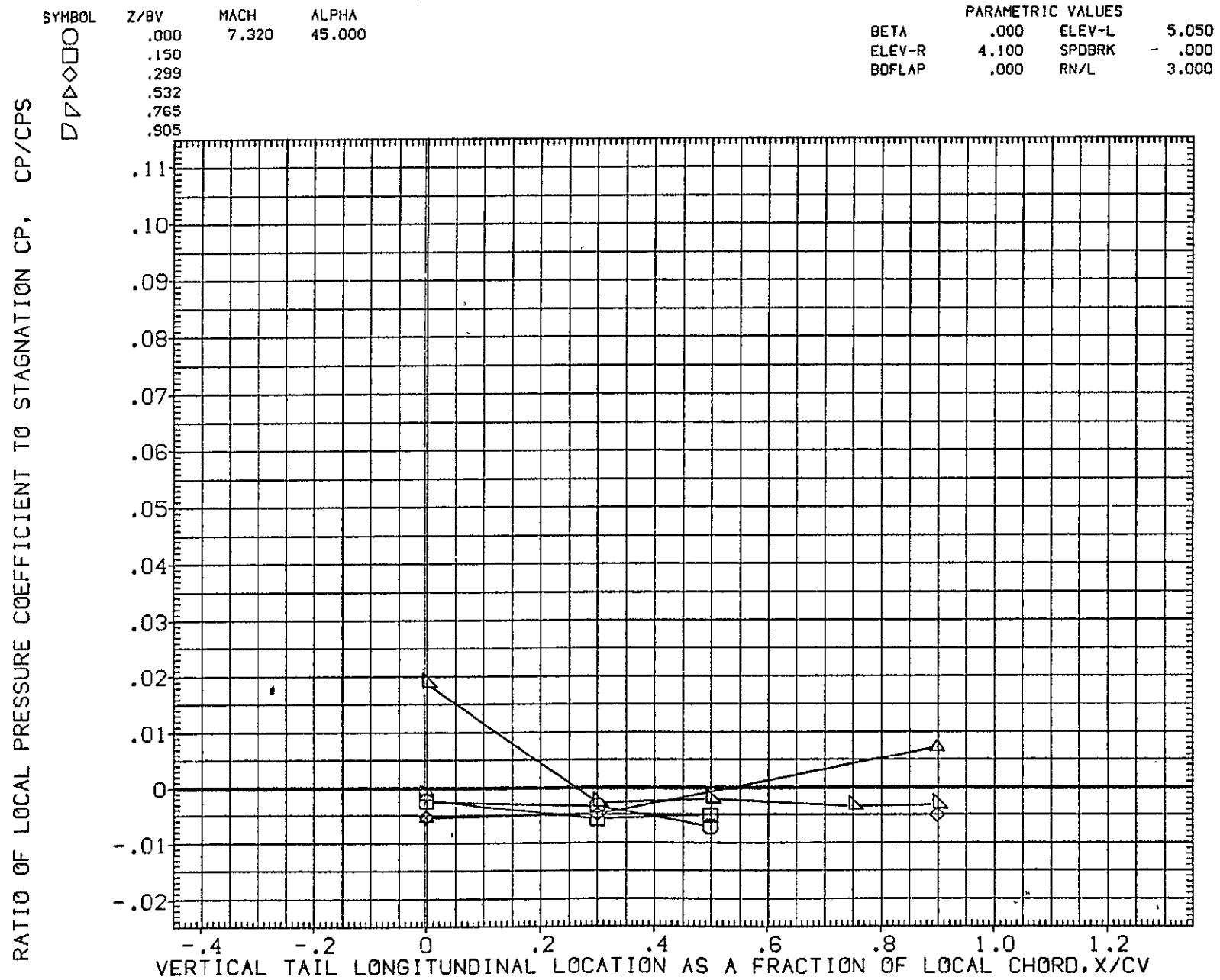


FIG. 10 VERTICAL TAIL

SYMBOL

 $Z/BV$ 

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

○  
□  
◇  
△  
▽  
◇

.000  
.150  
.299  
.532  
.765  
.905

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

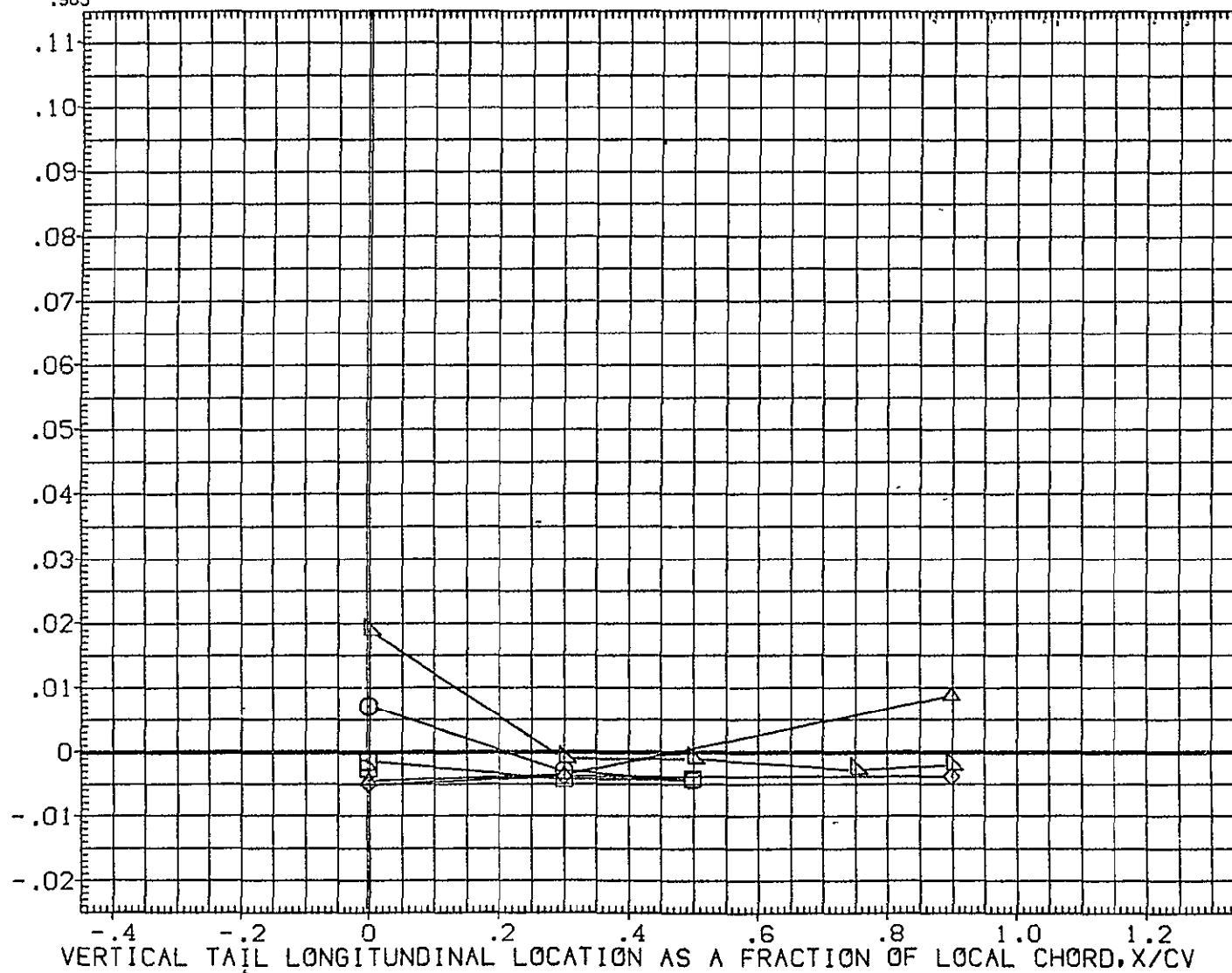


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(BEZ107)

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\triangle$   $\square$   $\square$

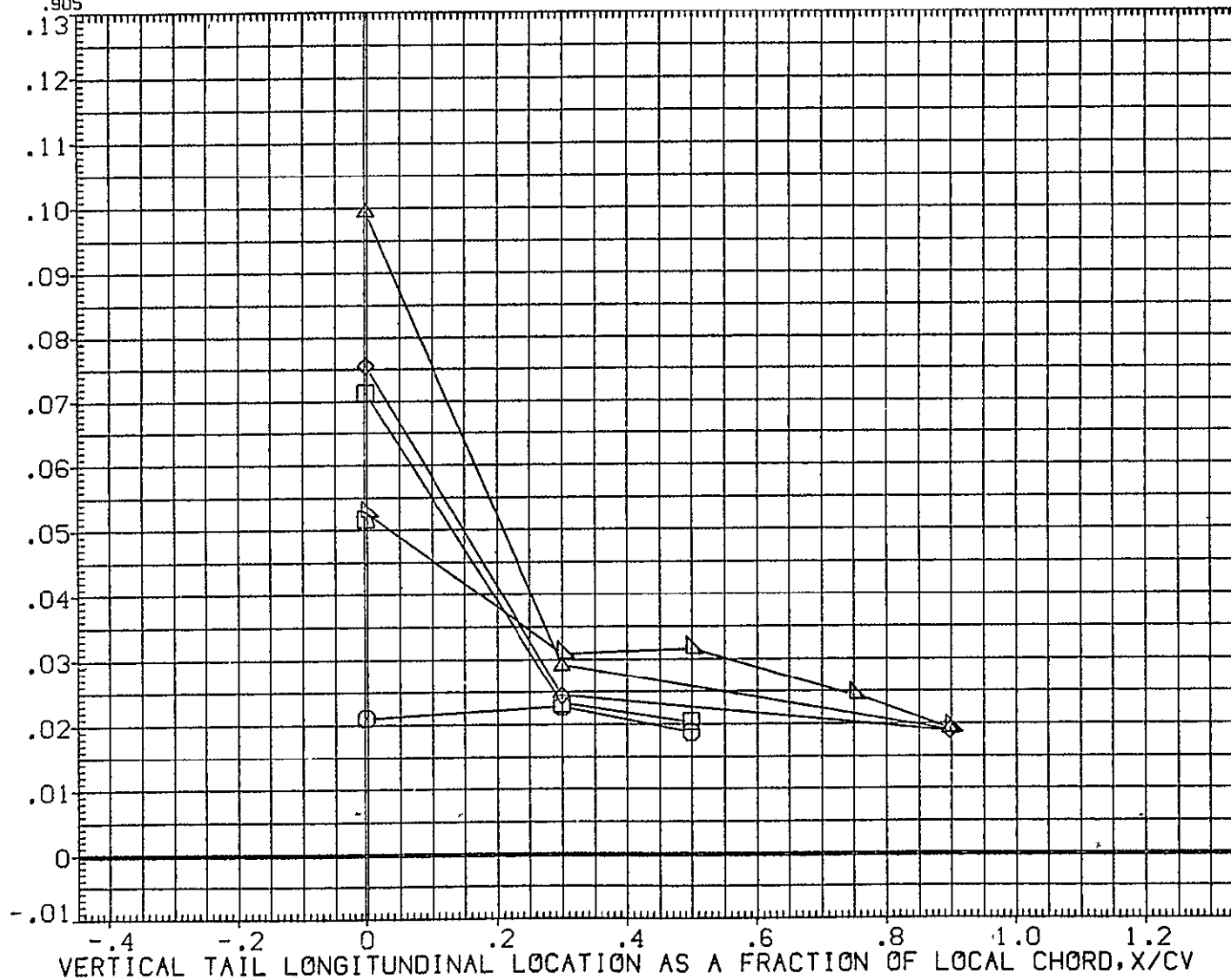


FIG. 10 VERTICAL TAIL

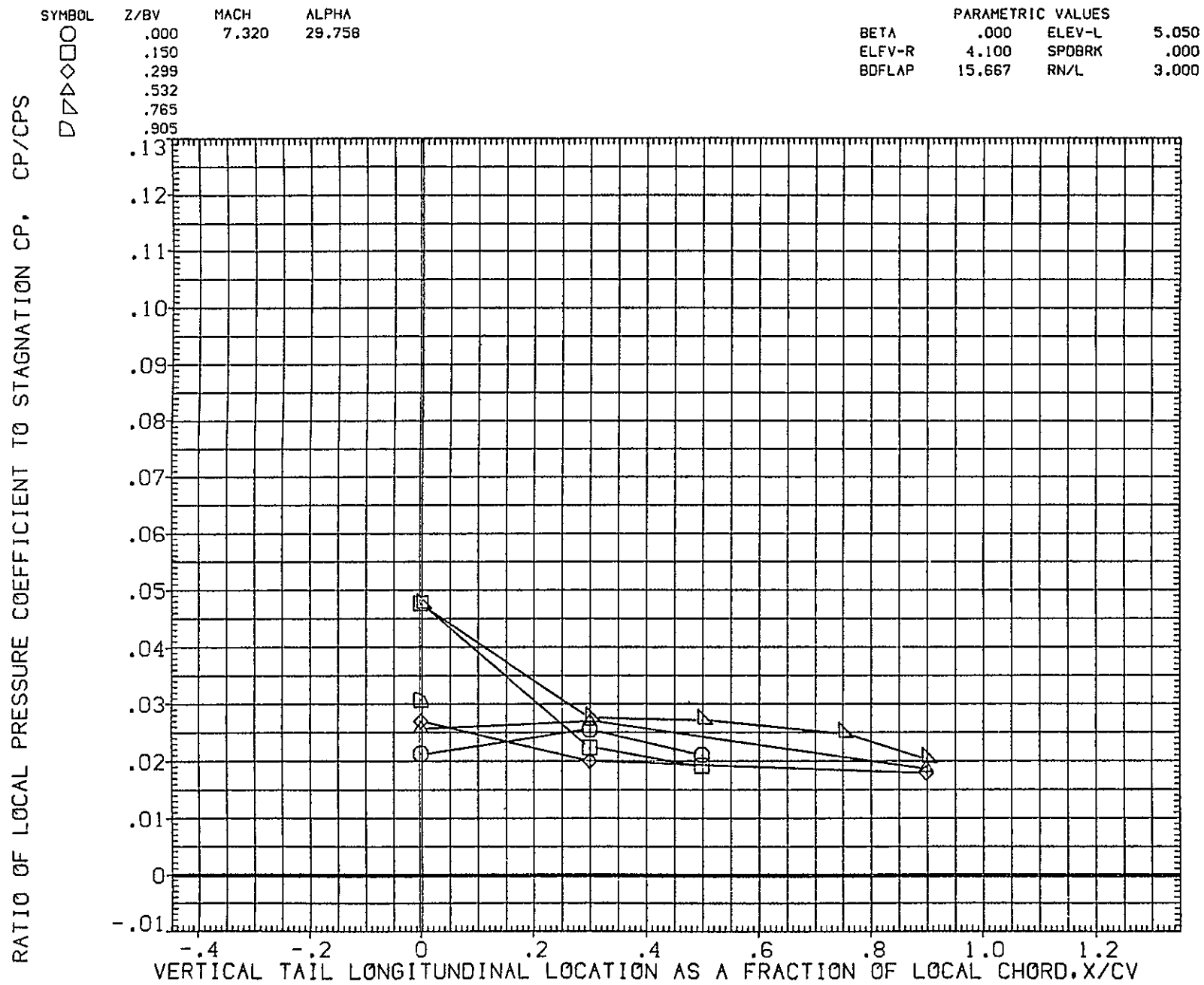


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(BEZ107)

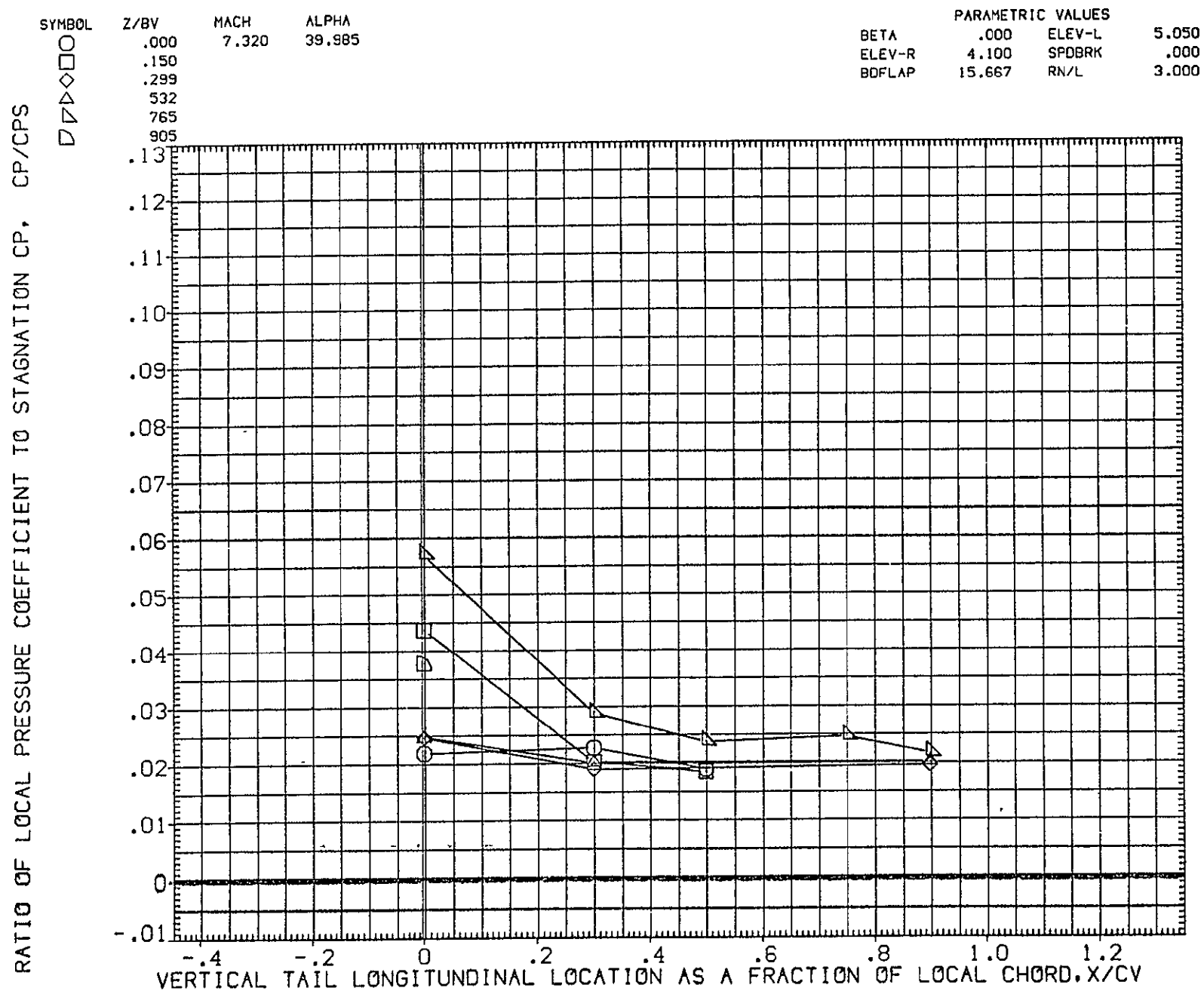


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BY

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\nabla$   $\triangle$   $\square$   $\diamond$   $\circ$

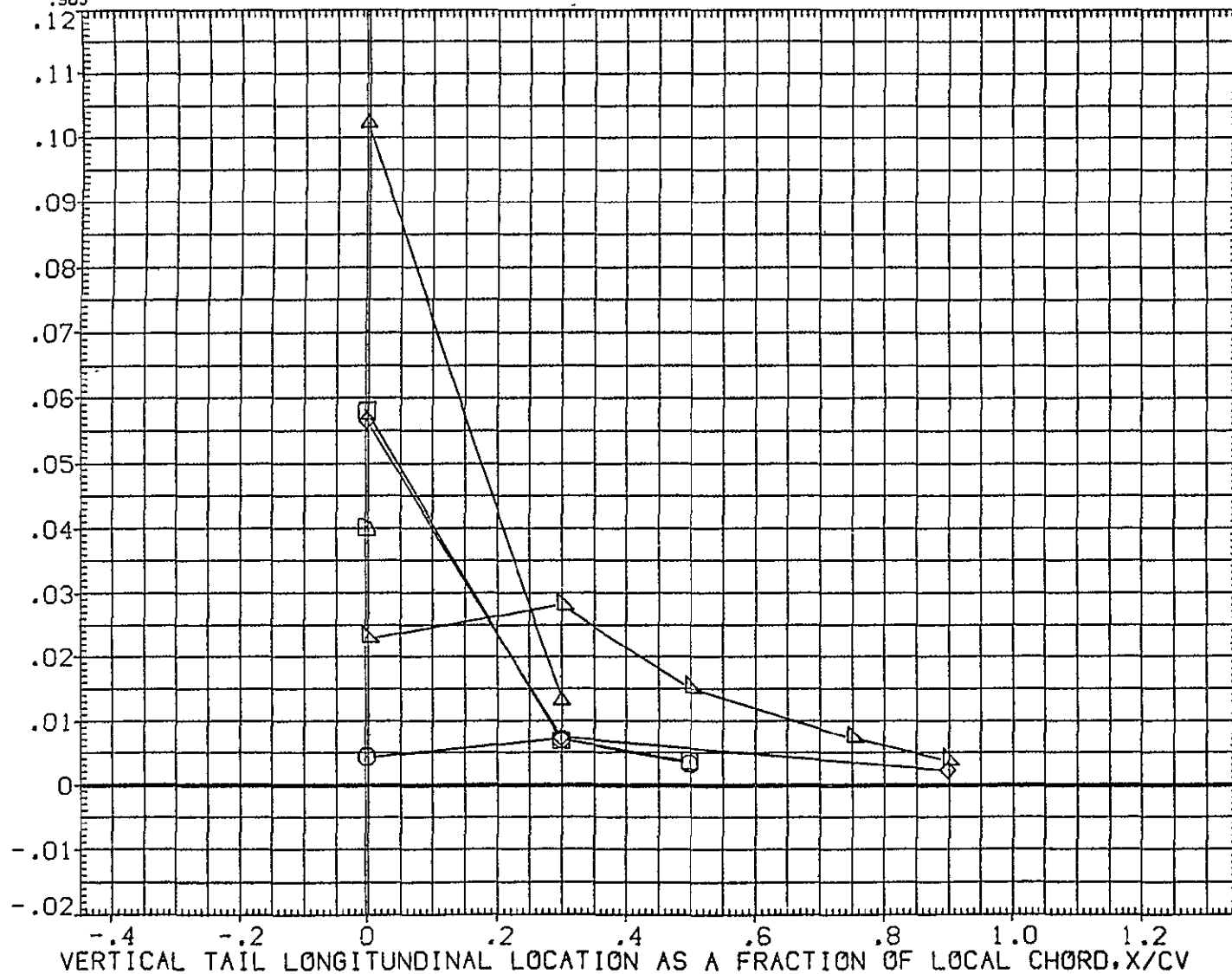


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(PEZI11)

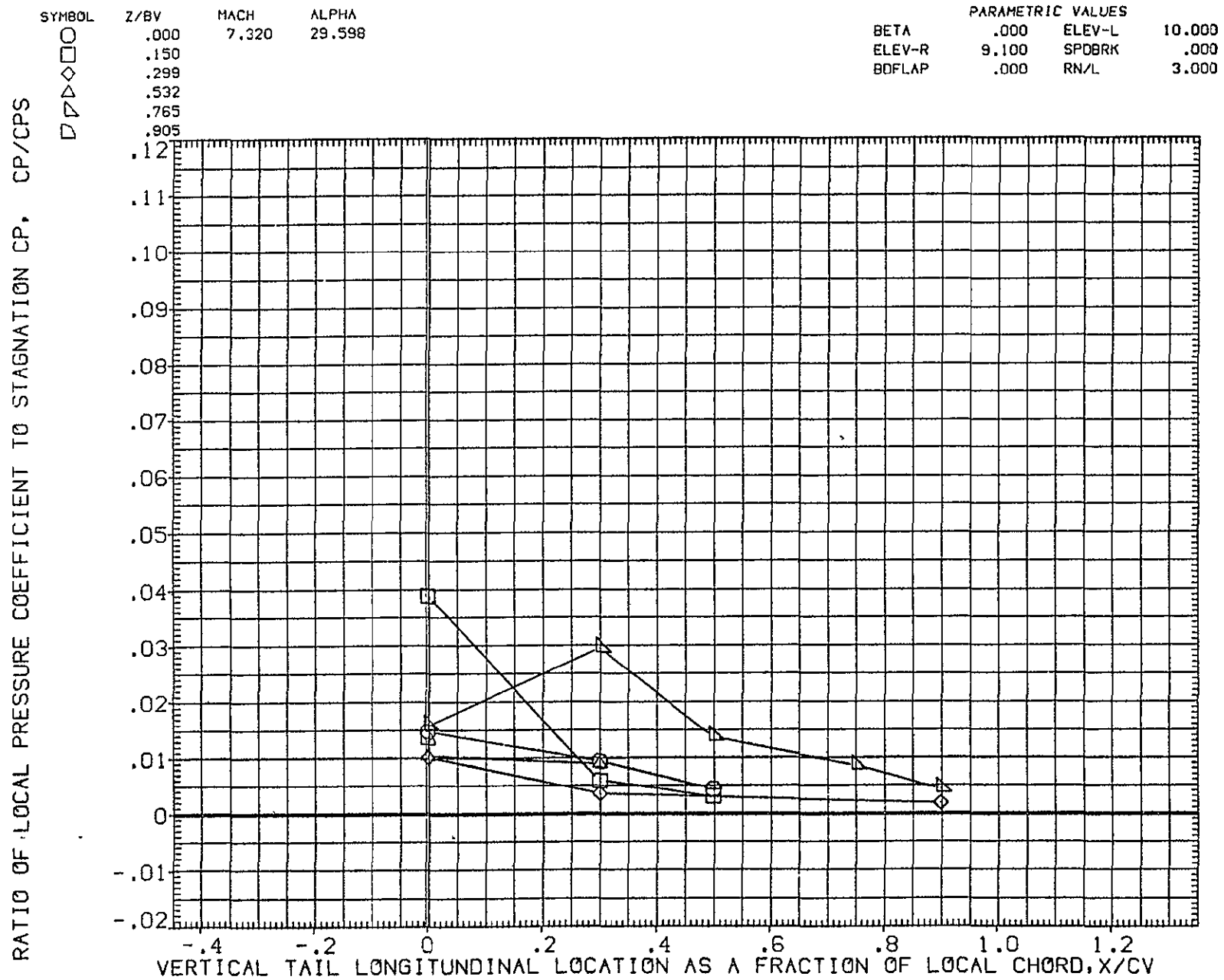


FIG. 10 VERTICAL TAIL

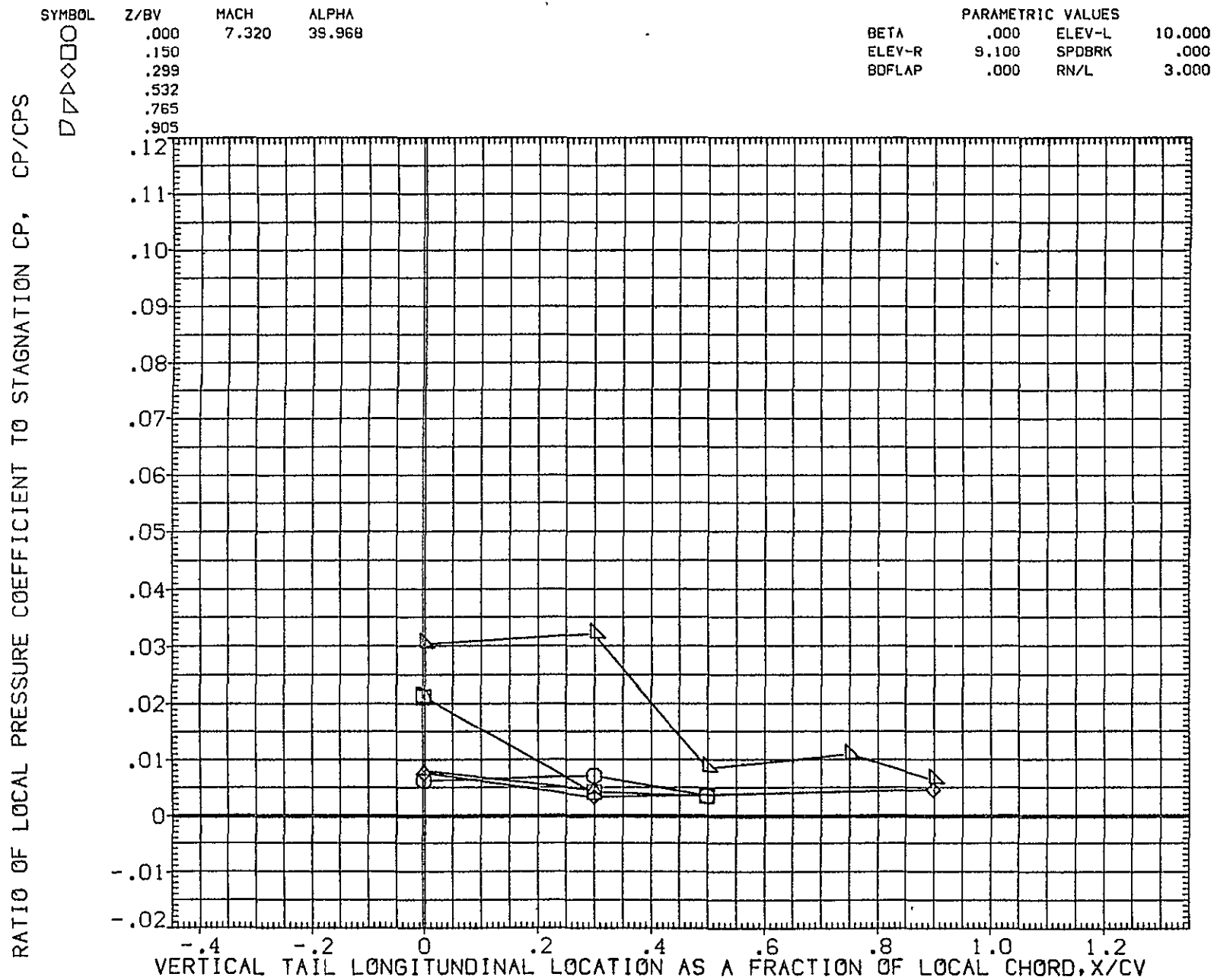


FIG. 10 VERTICAL TAIL



# ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(0EZI14)

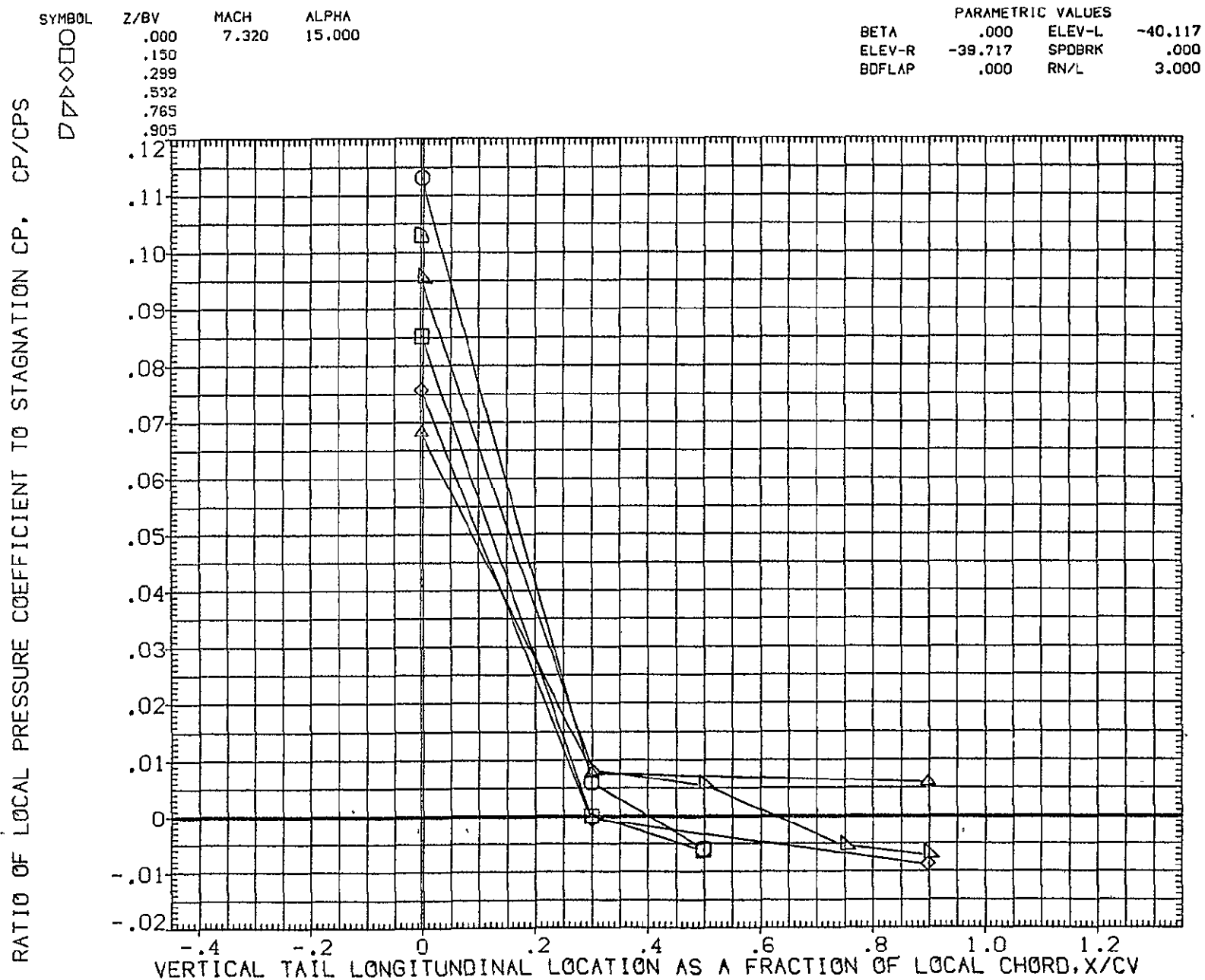


FIG. 10 VERTICAL TAIL

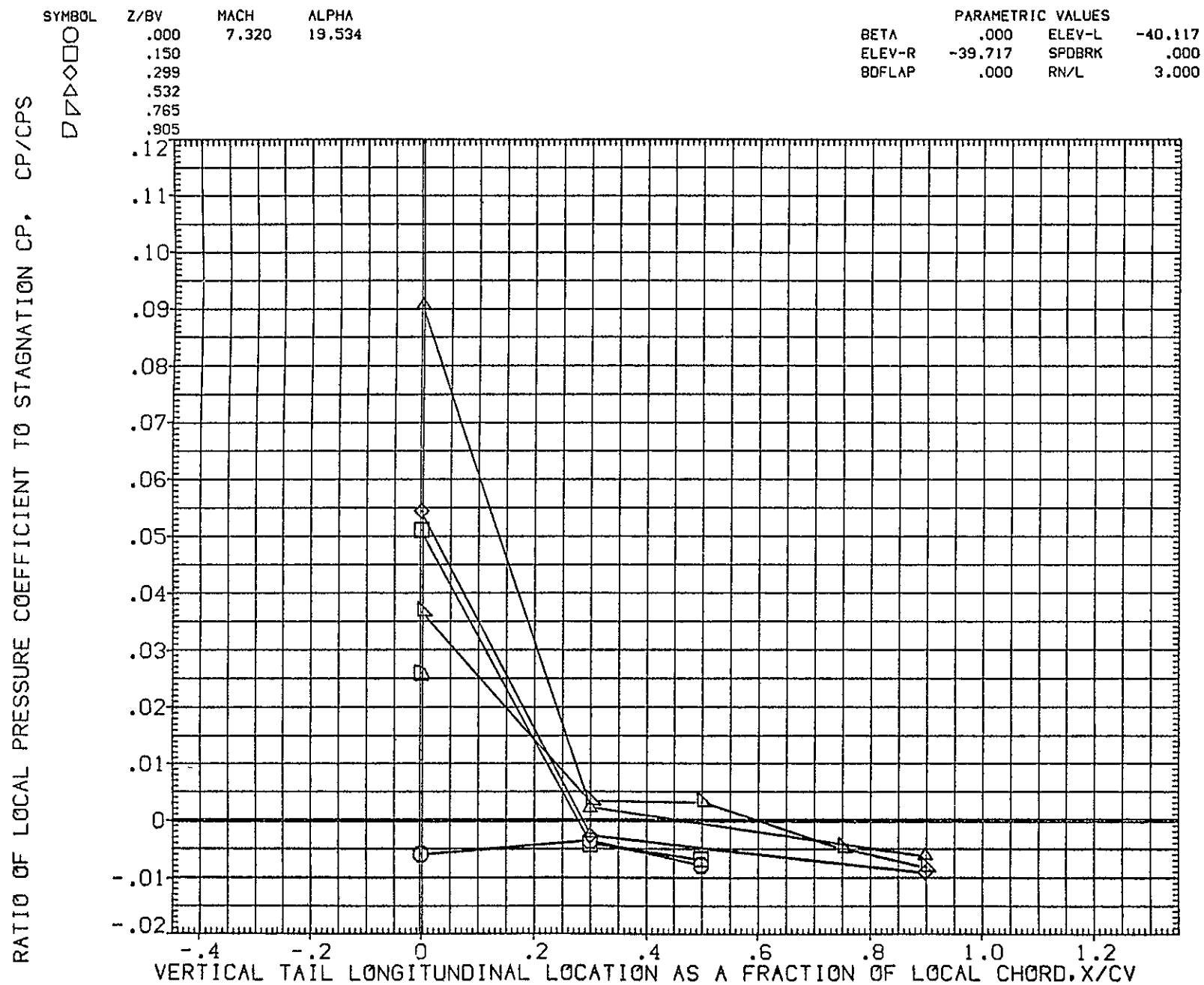


FIG. 10 VERTICAL TAIL

ARC 3.5-198 OH38 140C ORB VERTICAL TAIL

(OEZI14)

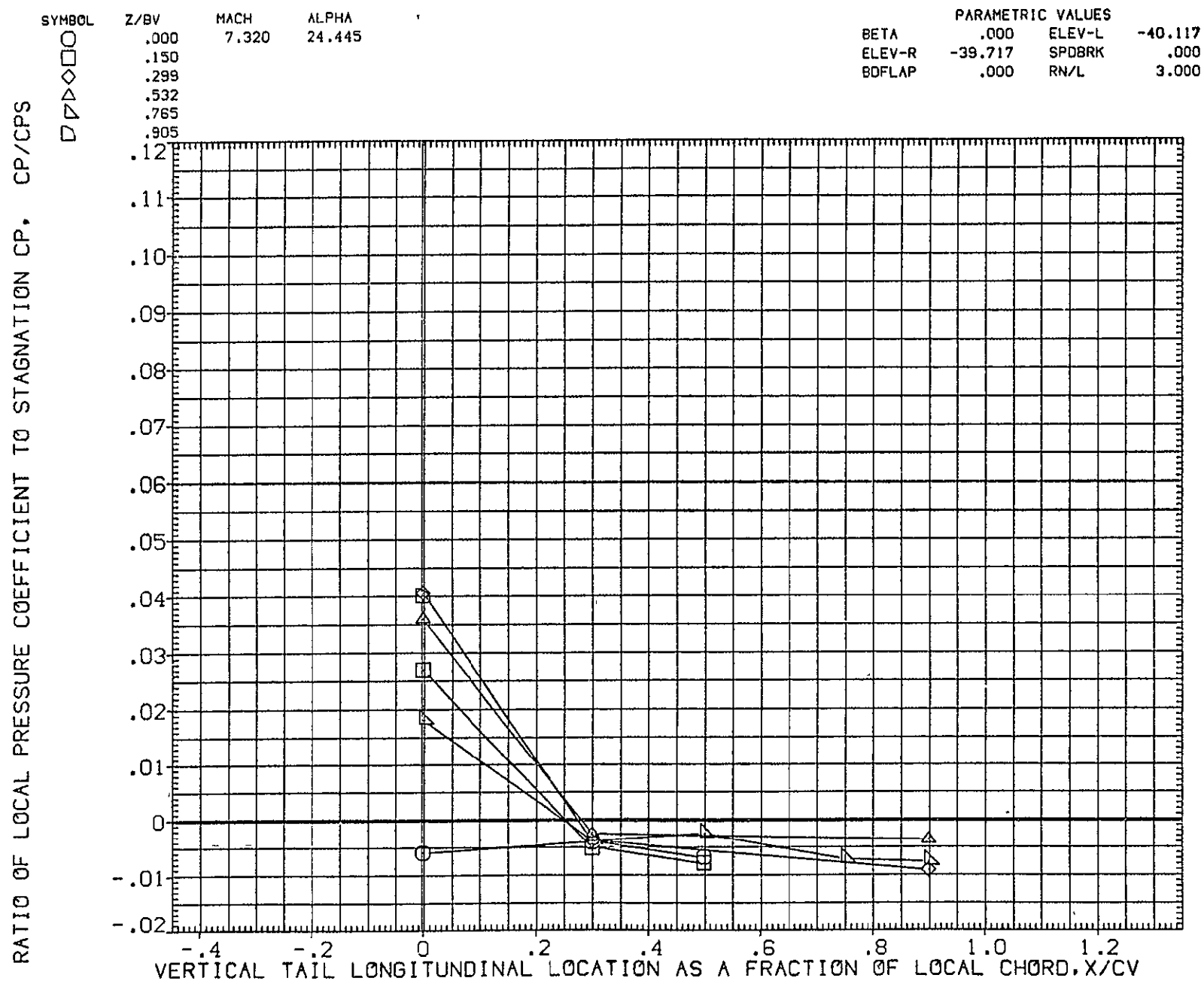


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA

.000

ELEV-L

-40.117

ELEV-R

-39.717

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\triangle$   $\square$   $\square$   
 $\square$   $\triangle$   $\diamond$   $\square$   $\square$

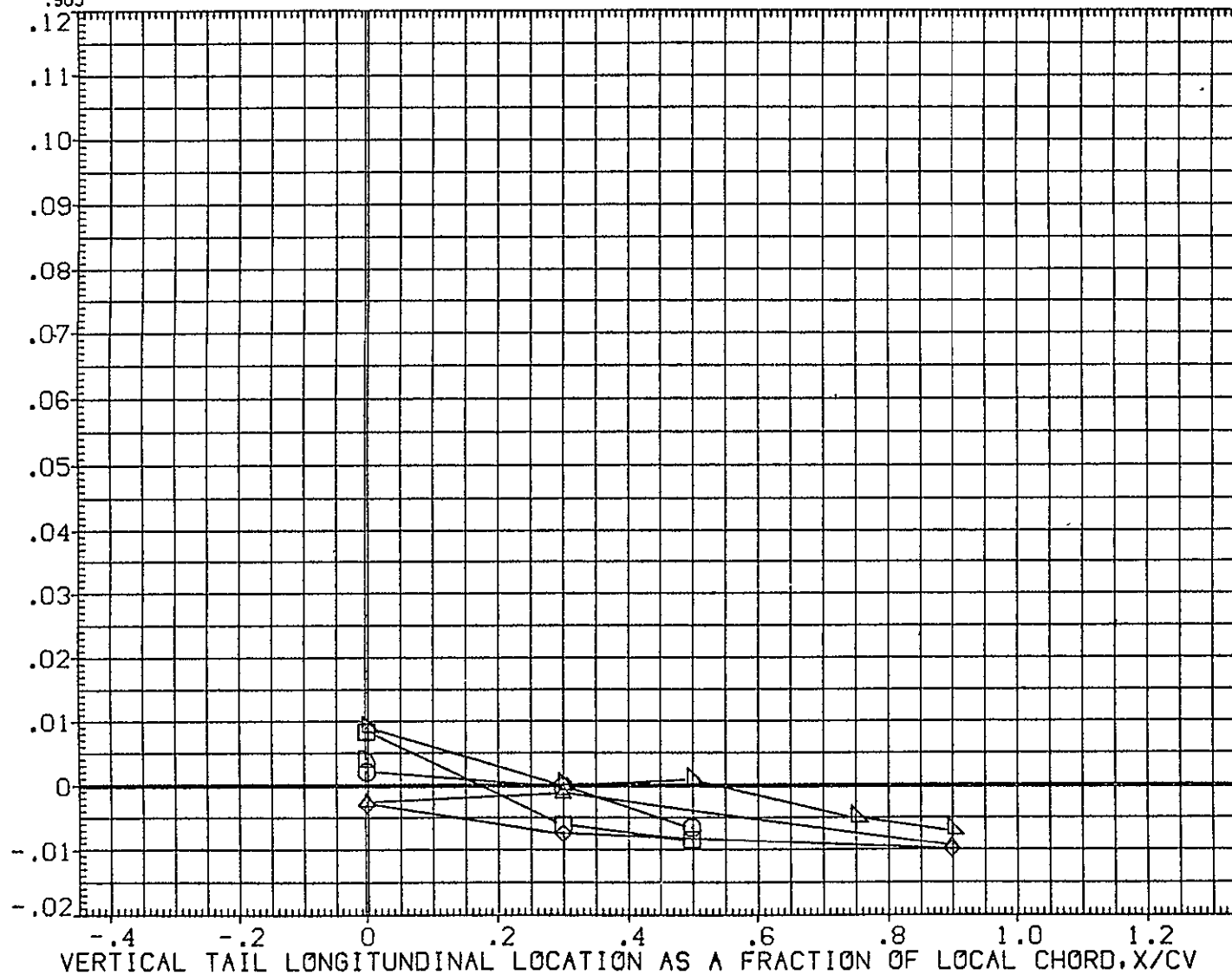


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(0EZI14)

SYMBOL

Z/BV	MACH	ALPHA
.000	7.320	34.863
.150		
.299		
.532		
.765		
.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\diamond$   $\triangle$   $\square$   $\diamond$   $\triangle$   $\square$   $\diamond$   $\triangle$

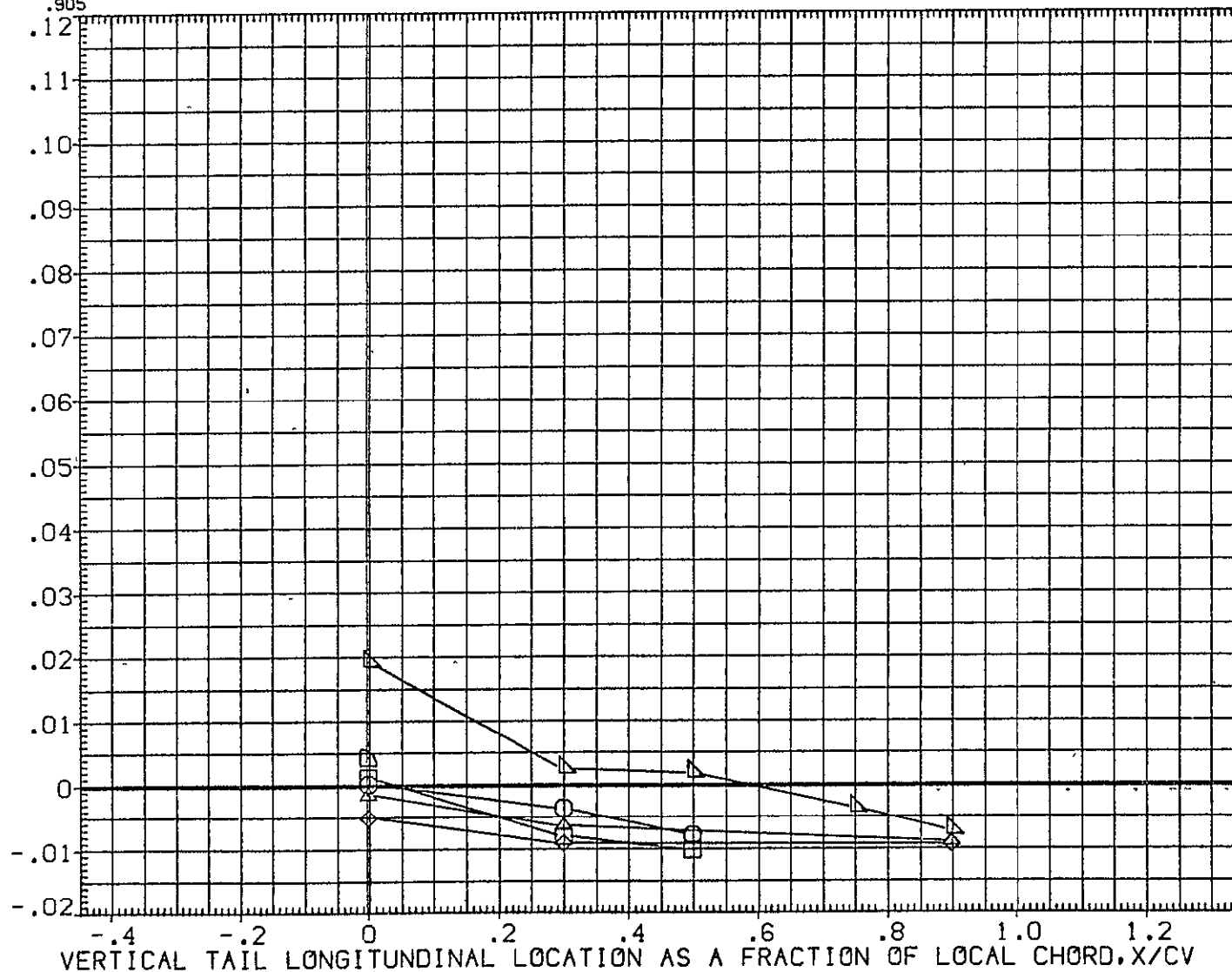


FIG. 10 VERTICAL TAIL

SYMBOL	Z/BV	MACH	ALPHA
○	.000	7.320	39.964
□	.150		
◇	.299		
△	.532		
▽	.765		
◊	.905		

PARAMETRIC VALUES		
BETA	.000	ELEV-L -40.117
ELEV-R	-39.717	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

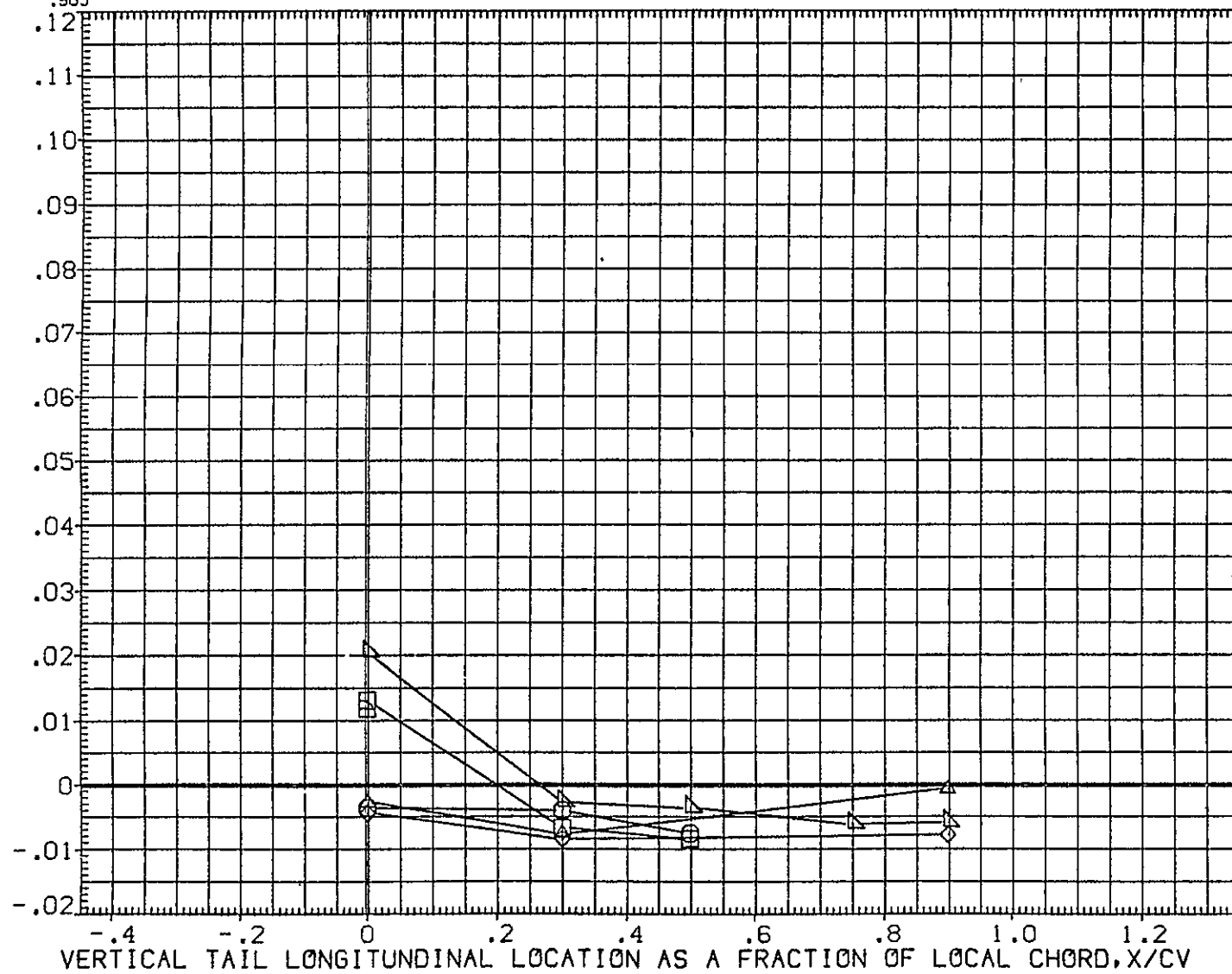


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(0EZI14)

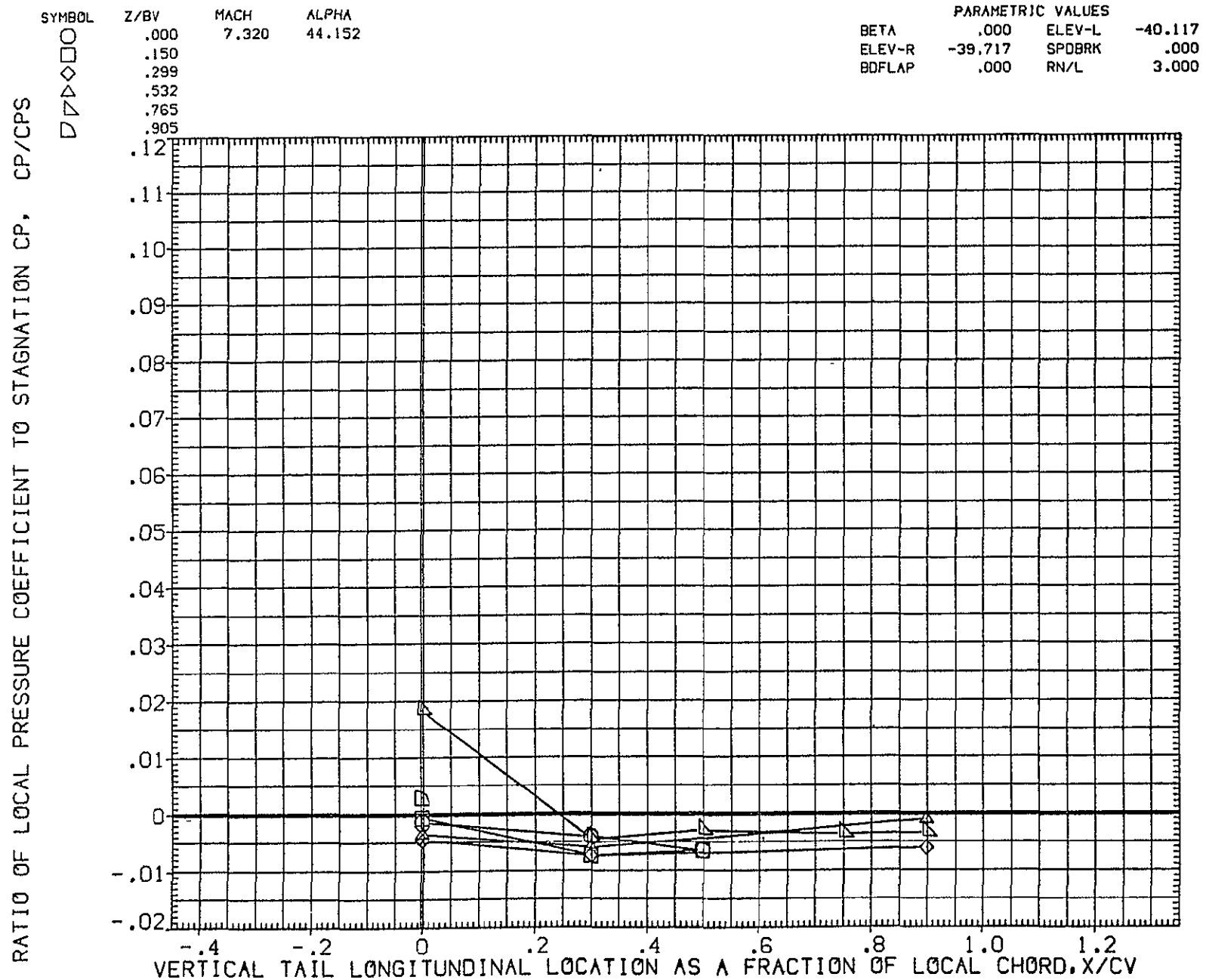


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\nabla$   $\diamond$   $\square$   $\square$

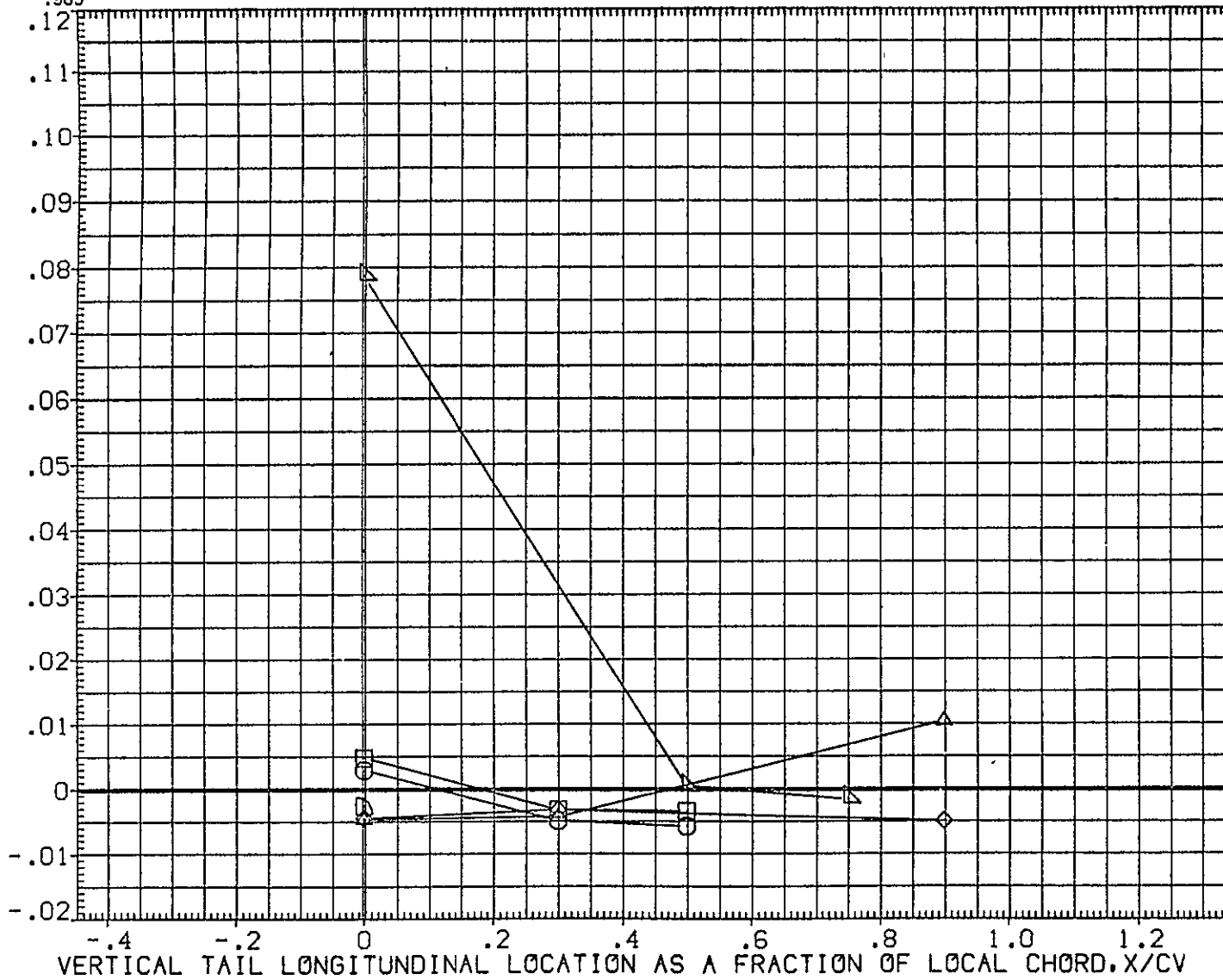


FIG. 10 VERTICAL TAIL



SYMBOL	Z/BV	MACH	ALPHA
○	.000	7.320	19.582
□	.150		
◇	.299		
△	.532		
▽	.765		
◊	.905		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

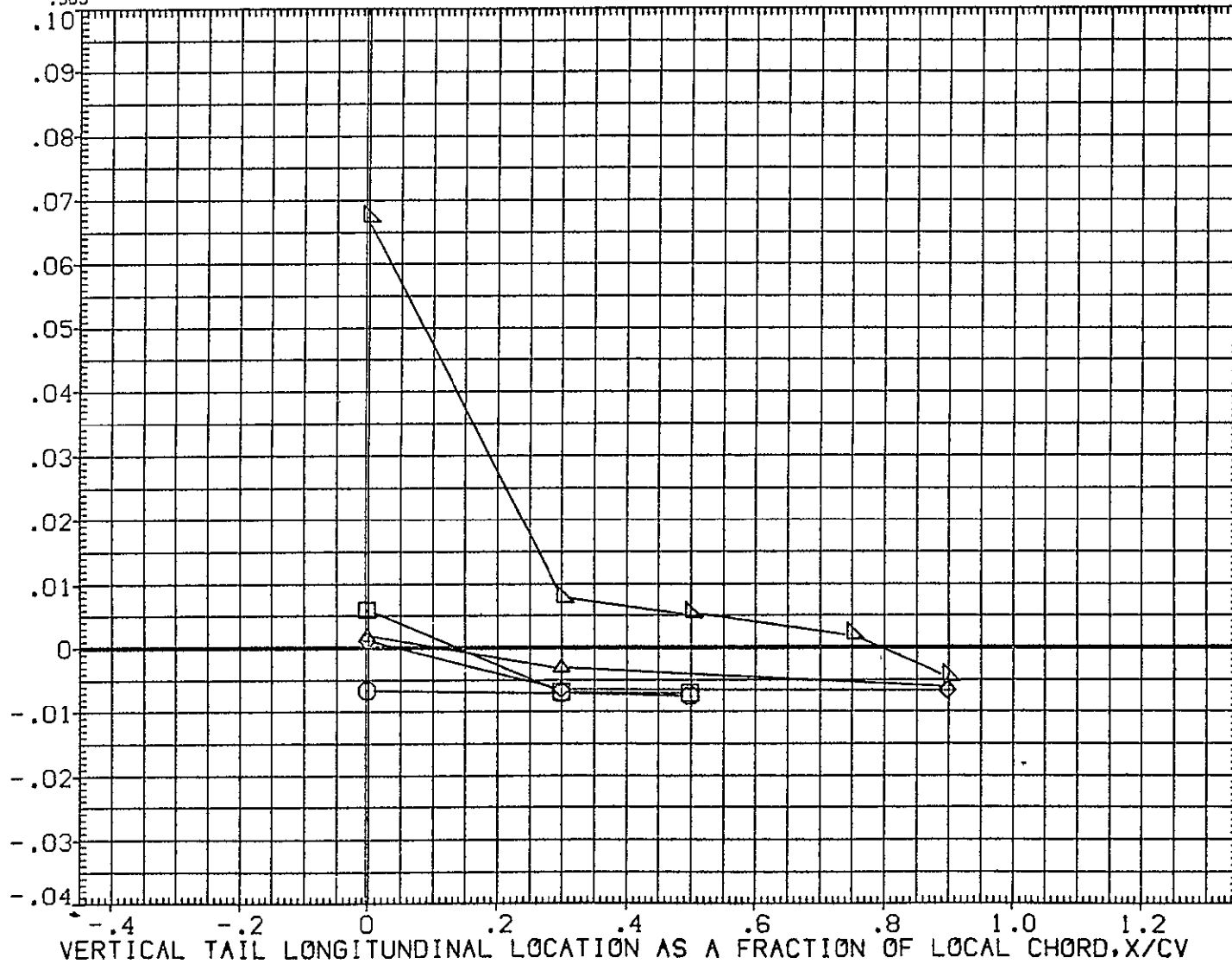


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA -1.000 ELEV-L .117

ELEV-R .000 SPDBRK .000

BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   
 $\square$   
 $\diamond$   
 $\triangle$   
 $\nabla$   
 $\circ$   
 $\circ$

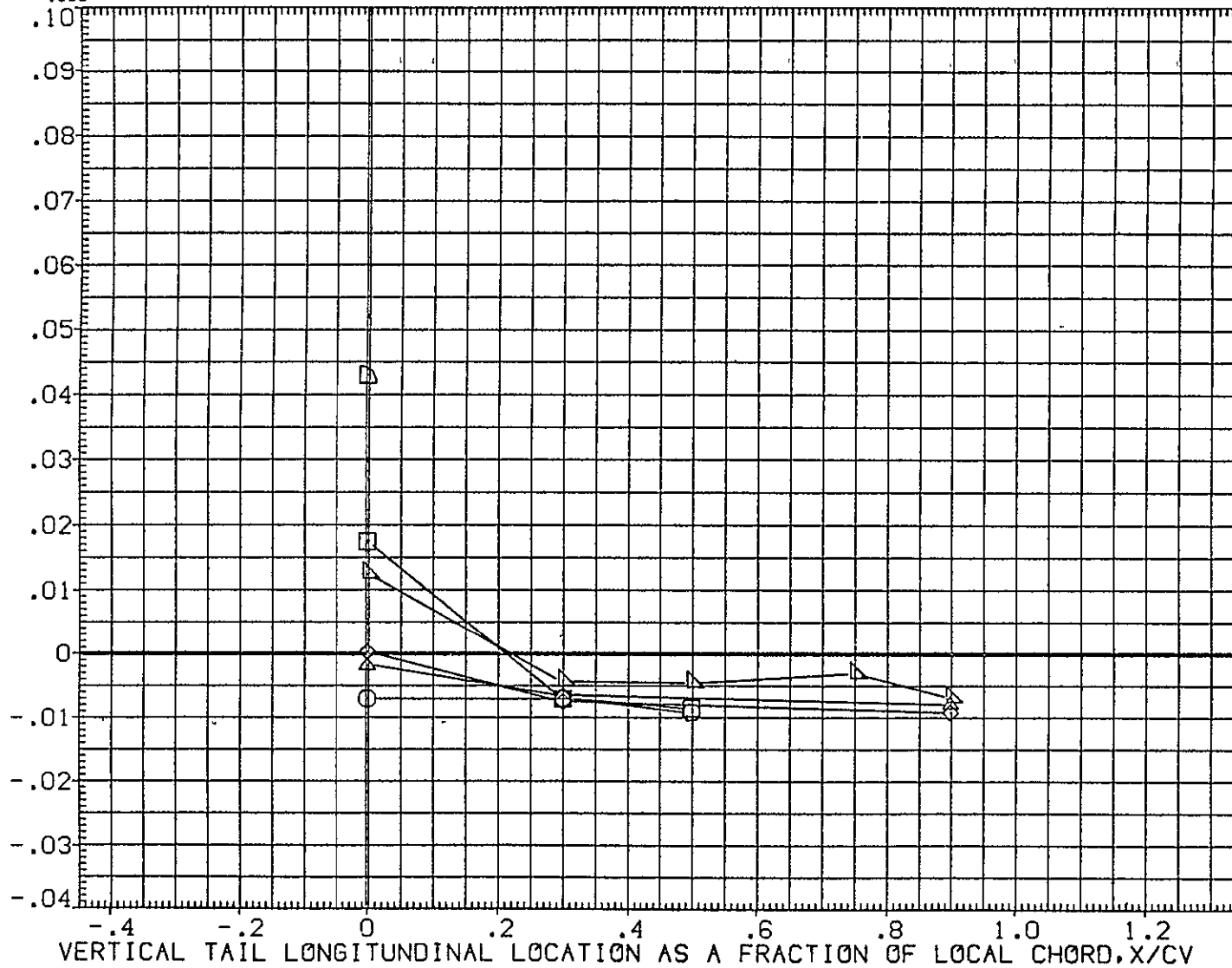


FIG. 10 VERTICAL TAIL

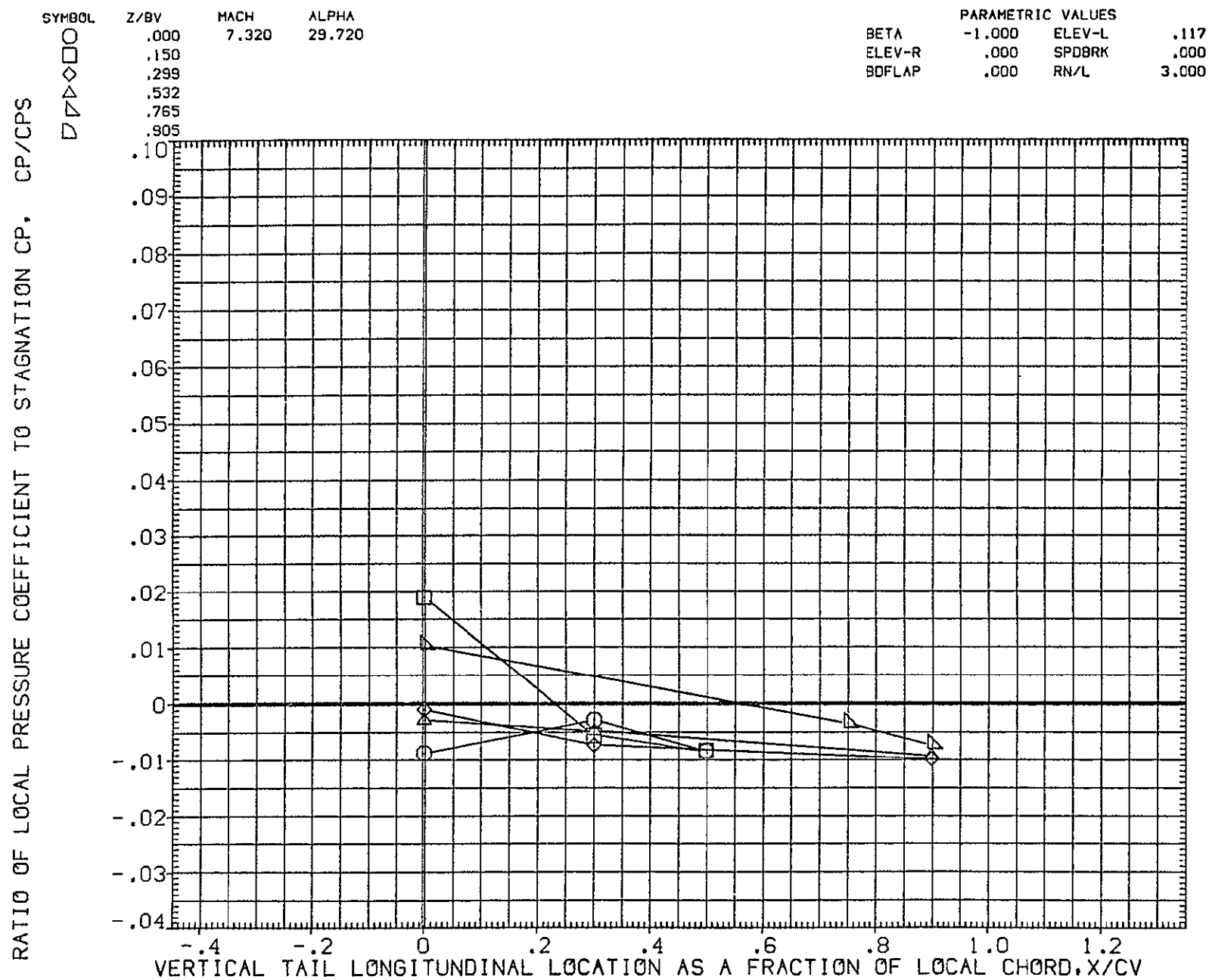


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

BETA

PARAMETRIC VALUES

ELEV-R

BOFLAP

ELEV-L

SPDBRK

RN/L

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○  
 □  
 ◇  
 △  
 ▽  
 ▴  
 ▾  
 ▸  
 ▹  
 ►  
 ▻  
 ▸  
 ▹  
 ►  
 ▻

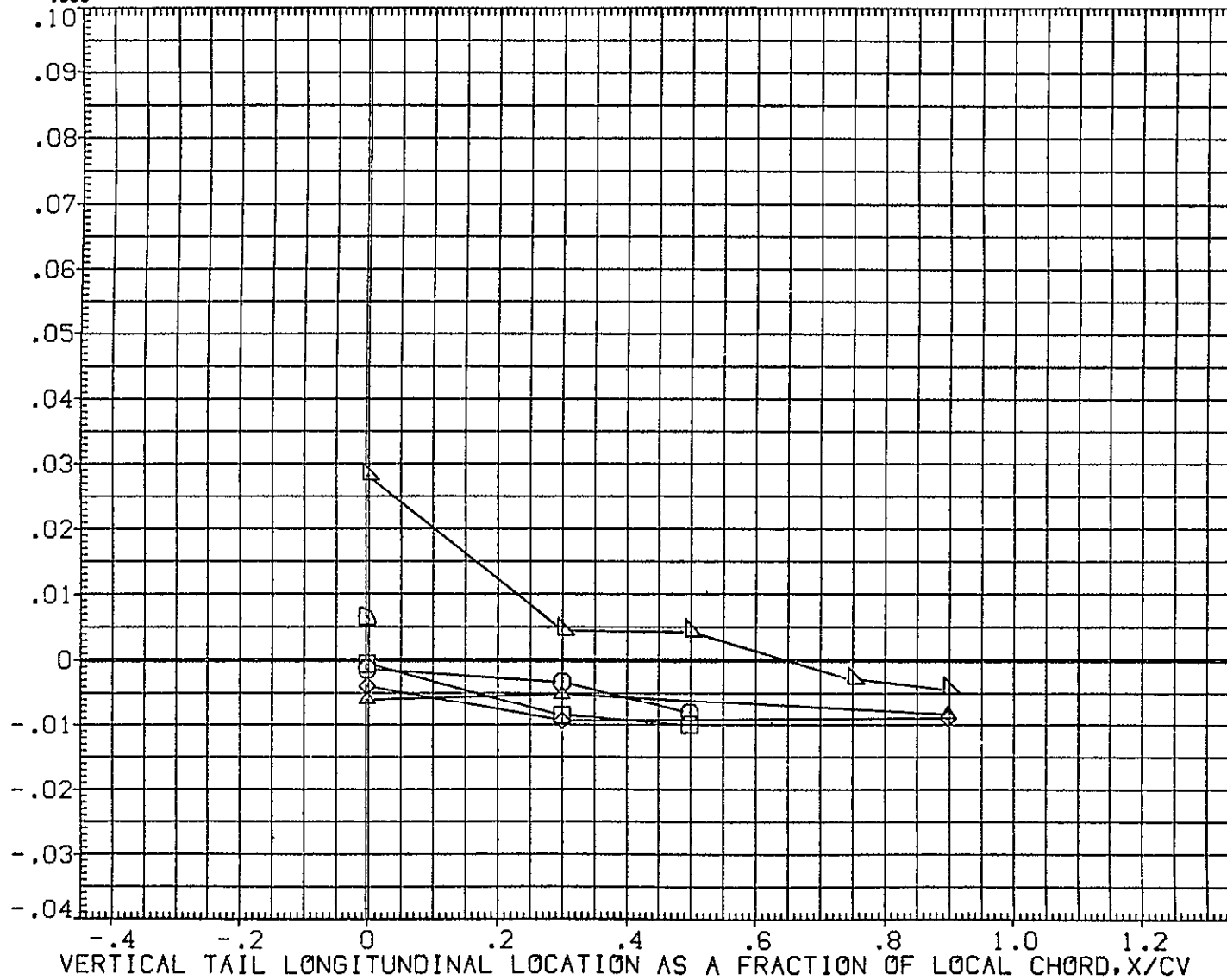


FIG. 10 VERTICAL TAIL

# ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(0EZ116)

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

$\square$   $\nabla$   $\diamond$   $\square$   $\square$

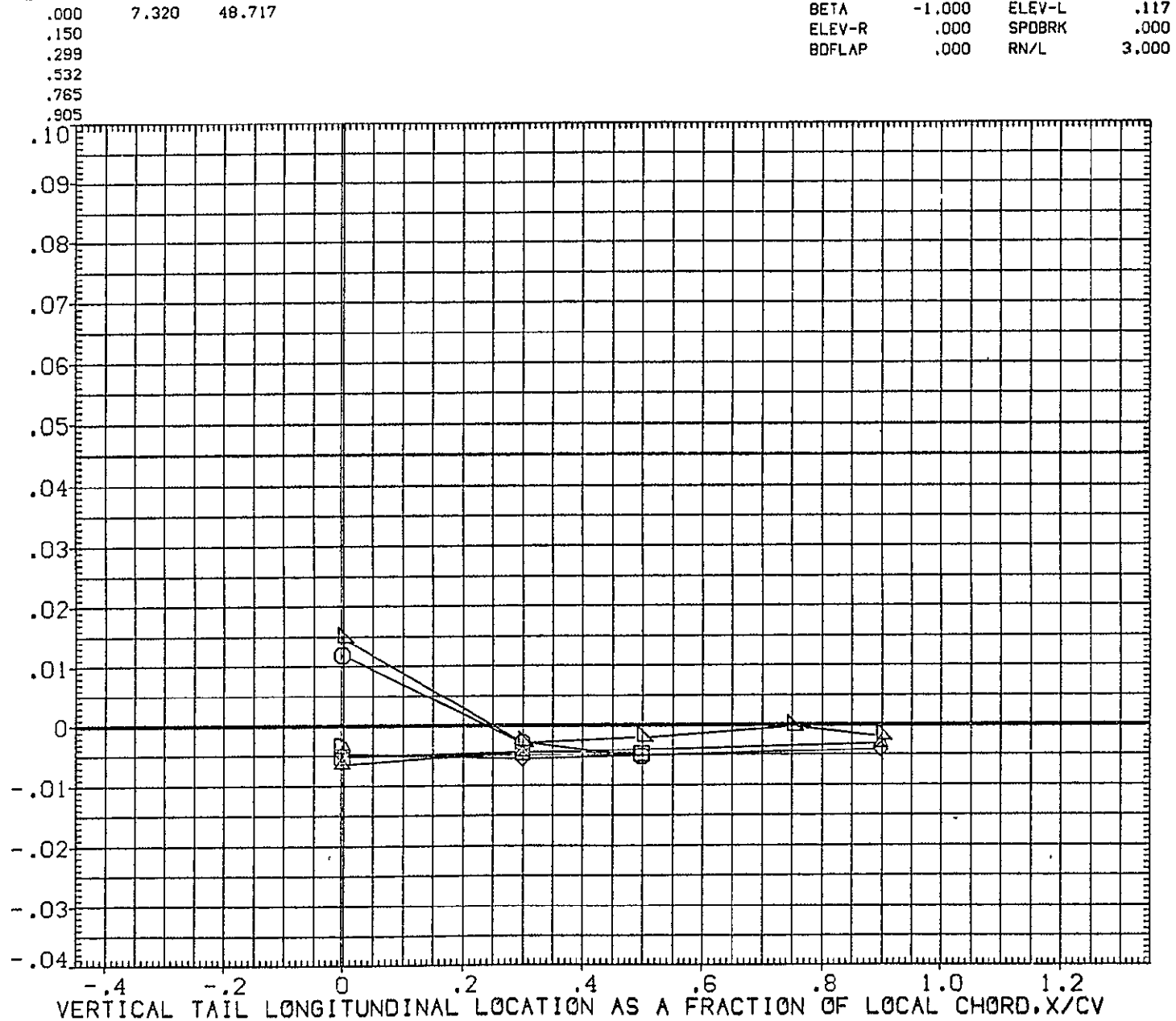


FIG. 10 VERTICAL TAIL

SYMBOL

Z/BV

MACH

ALPHA

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

○  
 □  
 ◇  
 △  
 ▽  
 ▴  
 ○

.000  
 .150  
 .299  
 .532  
 .765  
 .905

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

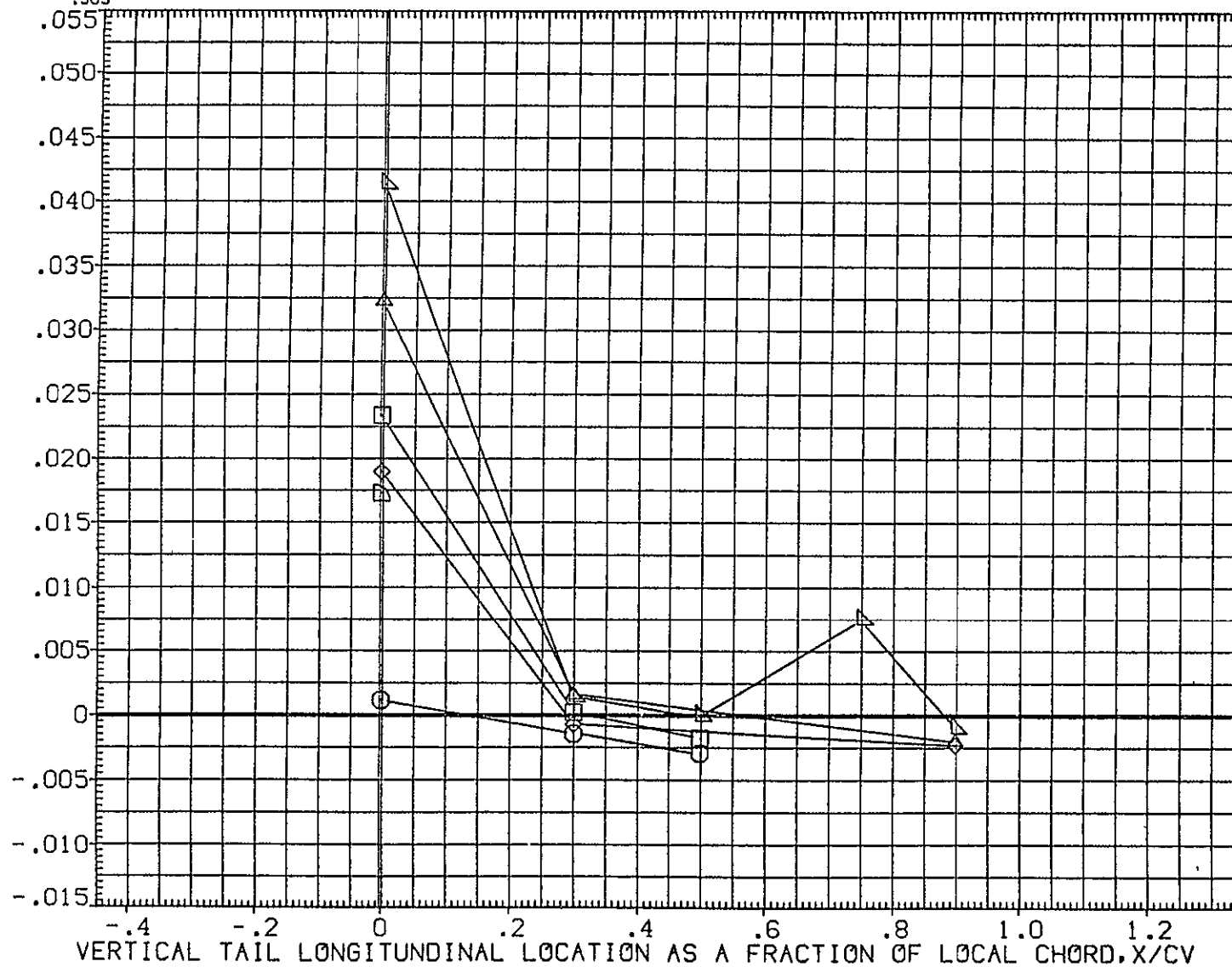


FIG. 10 VERTICAL TAIL

ARC 3.5-198 0H38 140C 0RB VERTICAL TAIL

(BEZI20)

SYMBOL

Z/BV

MACH

ALPHA

BETA

PARAMETRIC VALUES

ELEV-L .117

ELEV-R .000 SPDBRK .000

BDFLAP .000 RN/L 1.700

○  
◇  
△  
▽  
□

.000  
.150  
.299  
.532  
.765  
.905

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

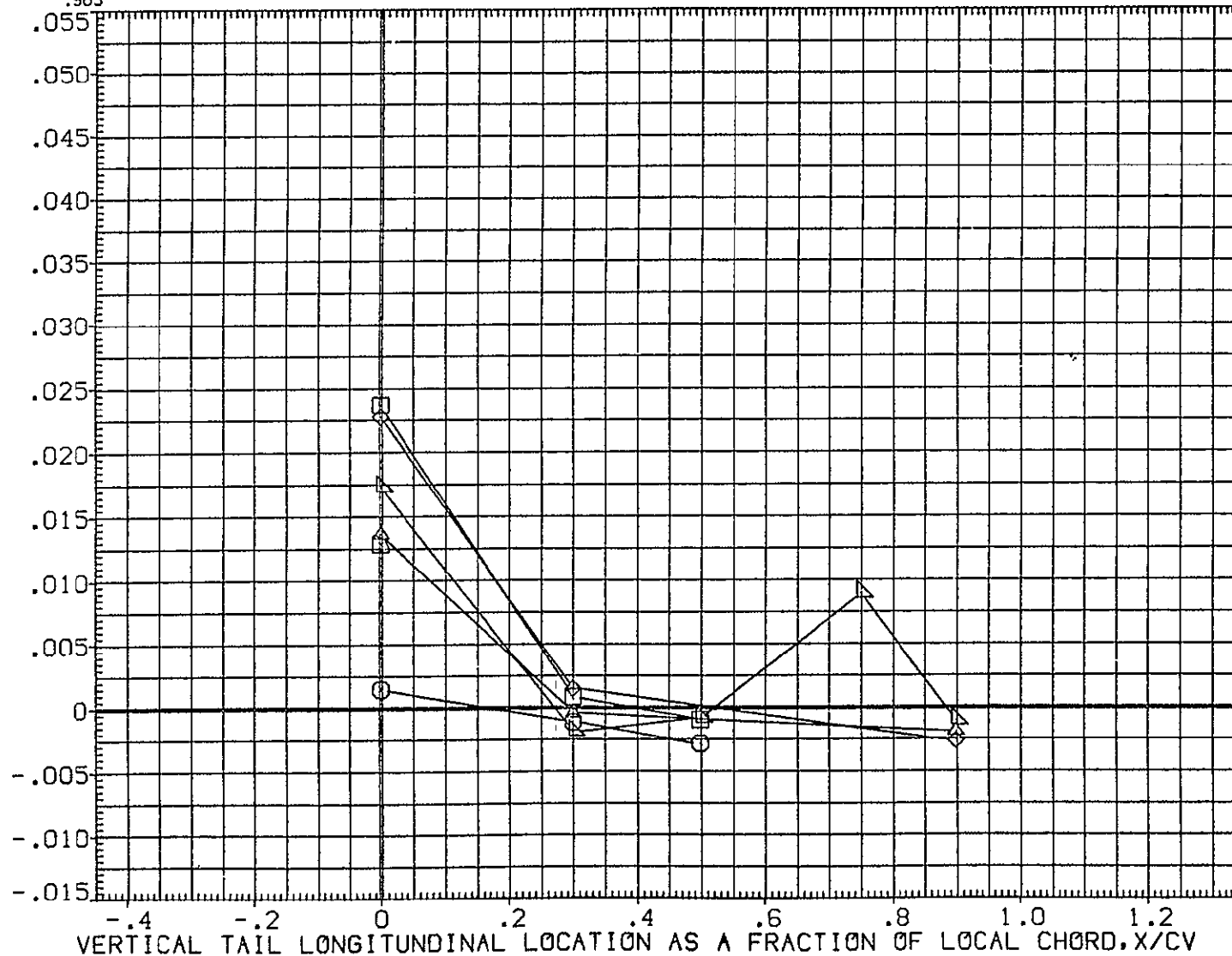


FIG. 10 VERTICAL TAIL

SYMBOL	Z/BV	MACH	ALPHA
□	.000	10.290	29.725
◇	.150		
△	.299		
▽	.532		
○	.765		
◇	.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

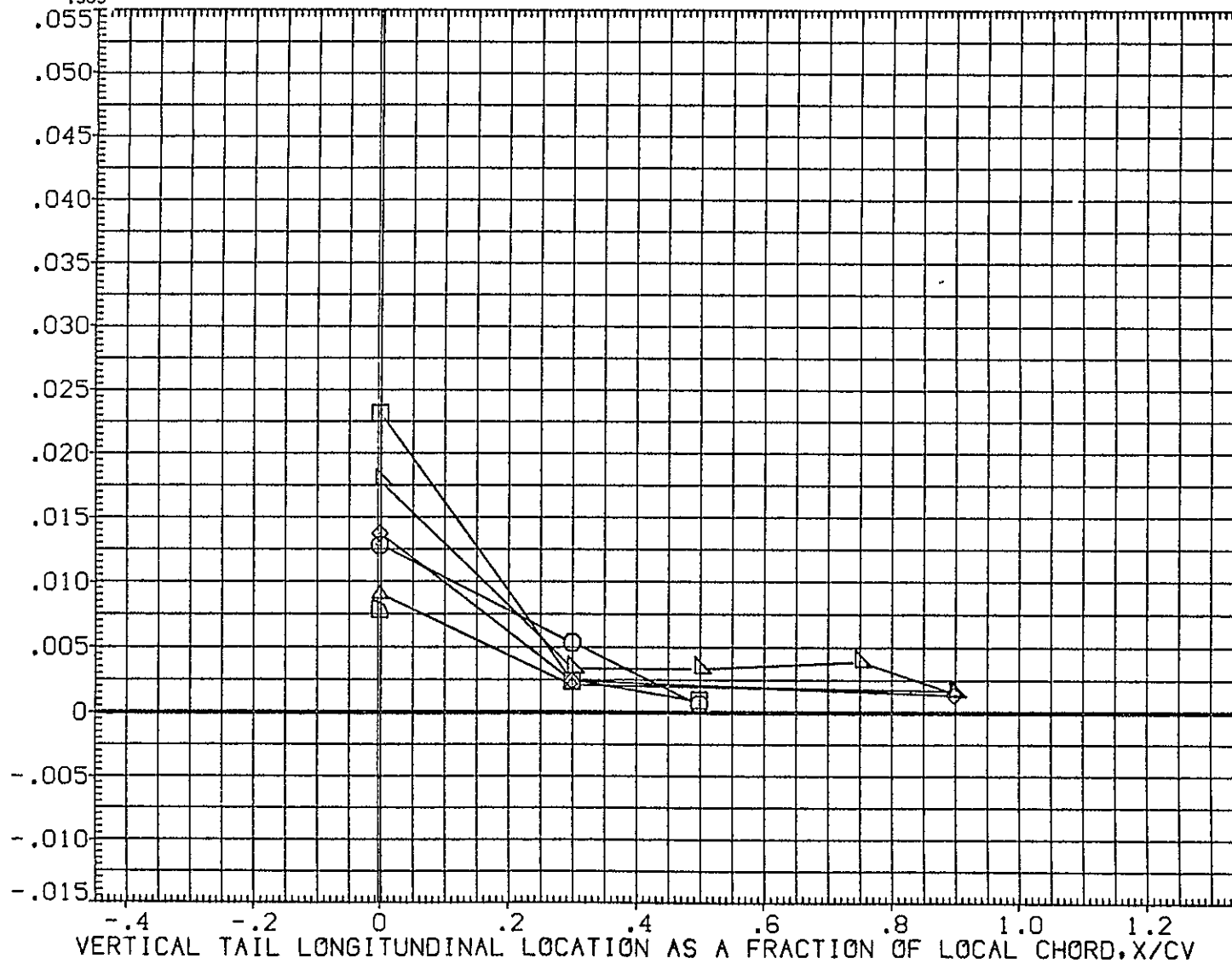


FIG. 10 VERTICAL TAIL



ARC 3.5-198 OH38 140C ORB VERTICAL TAIL

(BEZI20)

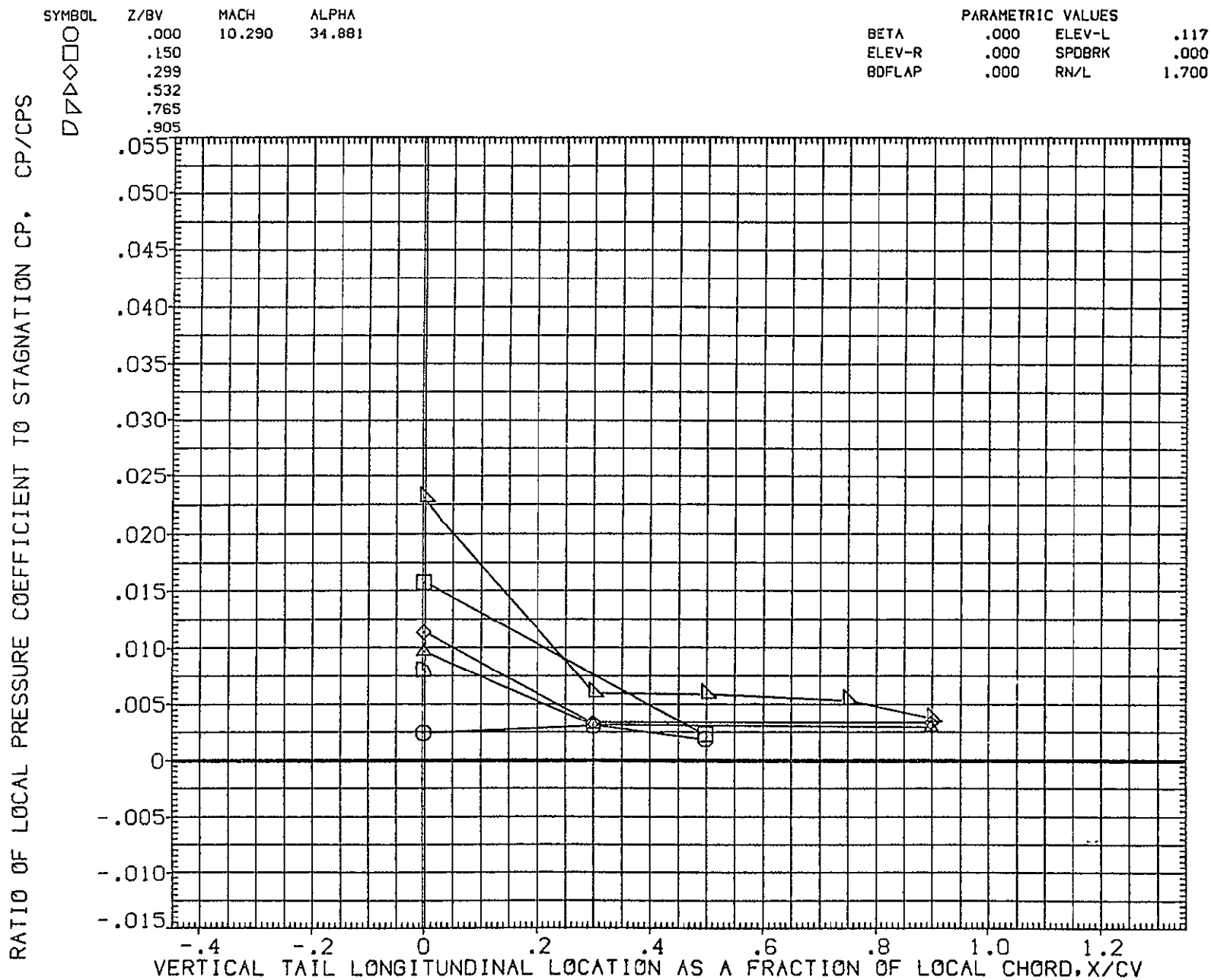


FIG. 10 VERTICAL TAIL

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

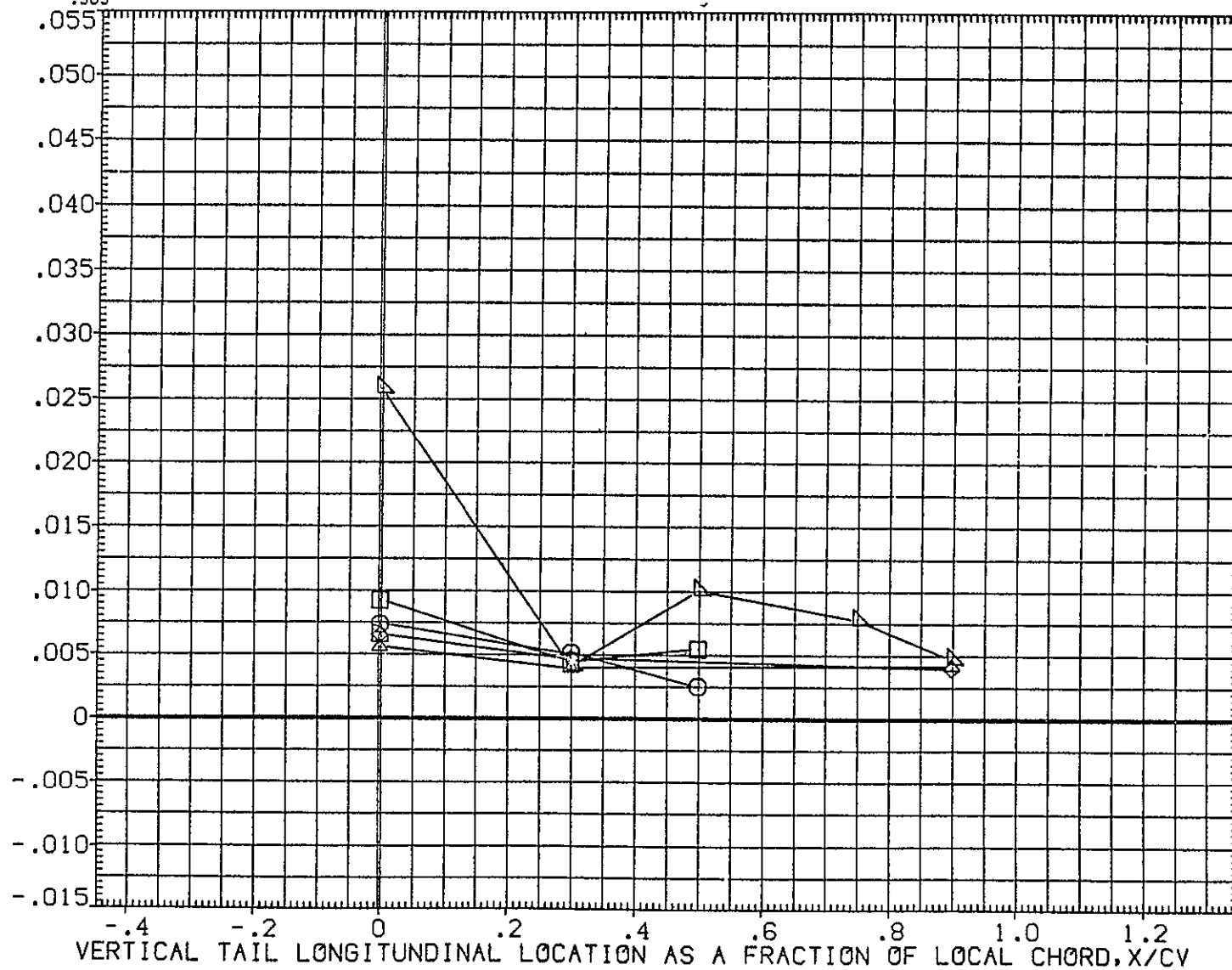


FIG. 10 VERTICAL TAIL

# ARC 3.5-198 OH38 140C ORB VERTICAL TAIL

(BEZI20)

SYMBOL  
○◇◇◇△▽  
□

Z/BV	MACH	ALPHA
.000	10.290	44.136
.150		
.299		
.532		
.765		
.905		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

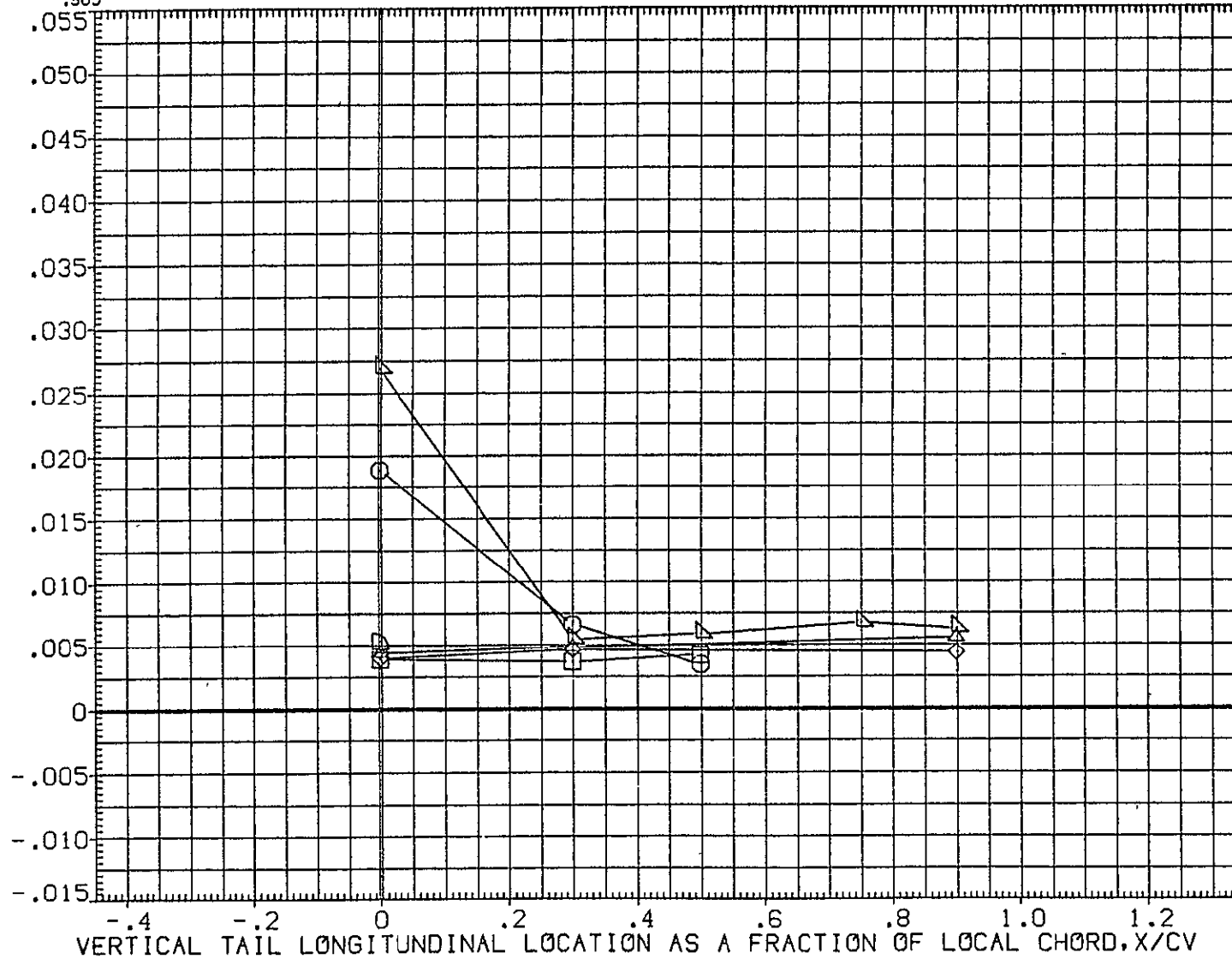


FIG. 10 VERTICAL TAIL

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

SYMBOL  
○  
□  
◇RAY  
1.000  
2.000  
3.000  
MACH  
7.320  
ALPHA  
19.261PARAMETRIC VALUES  
BETA .000 ELEV-L .000  
ELEV-R .000 SPDBRK 41.533  
BDFLAP 15.667 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

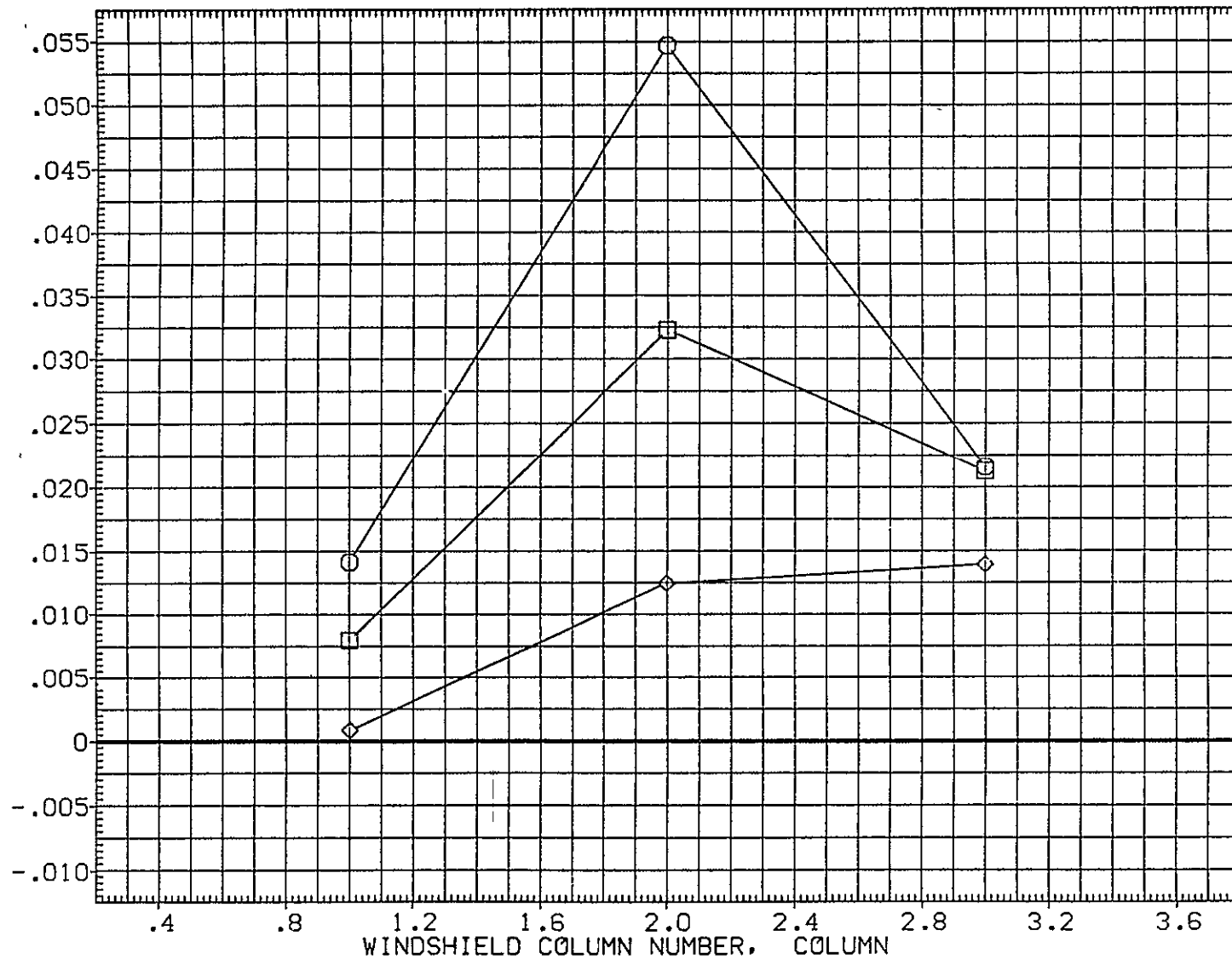


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(BEZE35)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	24.886
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

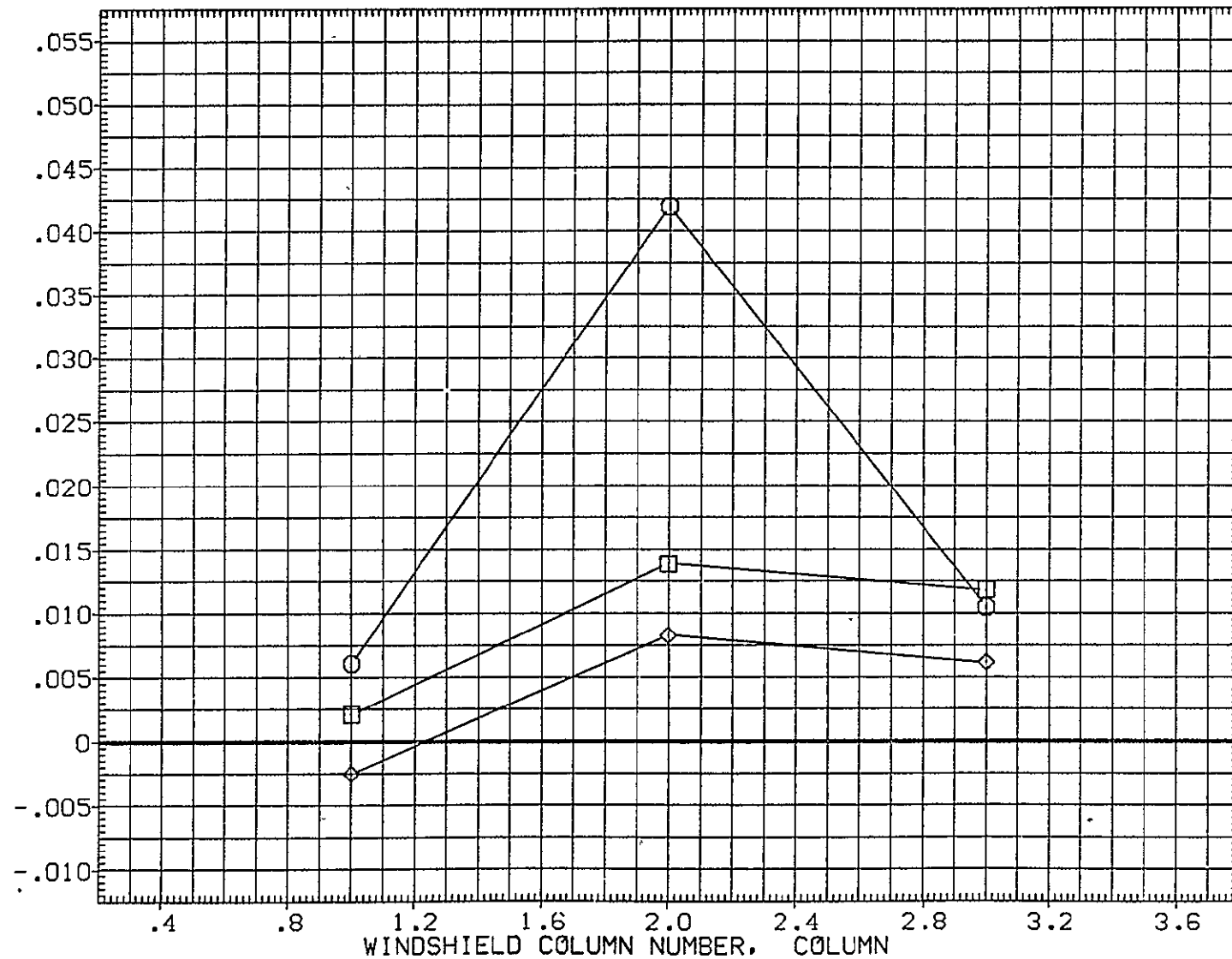


FIG. 11 WINDSHIELD

SYMBOL

○  
□  
◇

RAY

1.000  
2.000  
3.000

MACH

7.320

ALPHA

29.509

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

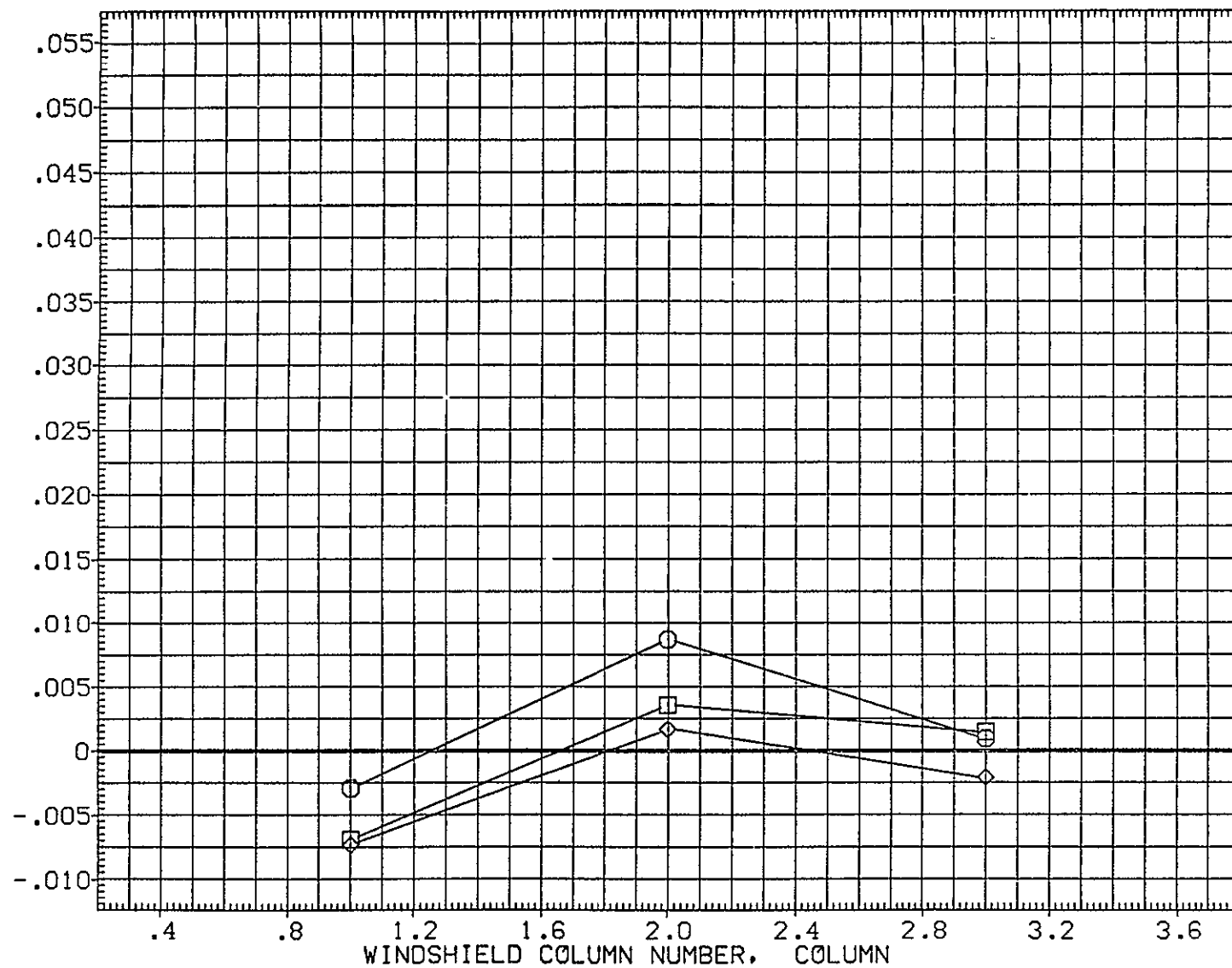


FIG. 11 WINDSHIELD

ARC 3.5-198 OH38 140C ORB WINDSHIELD

(BEZE35)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	34.843
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

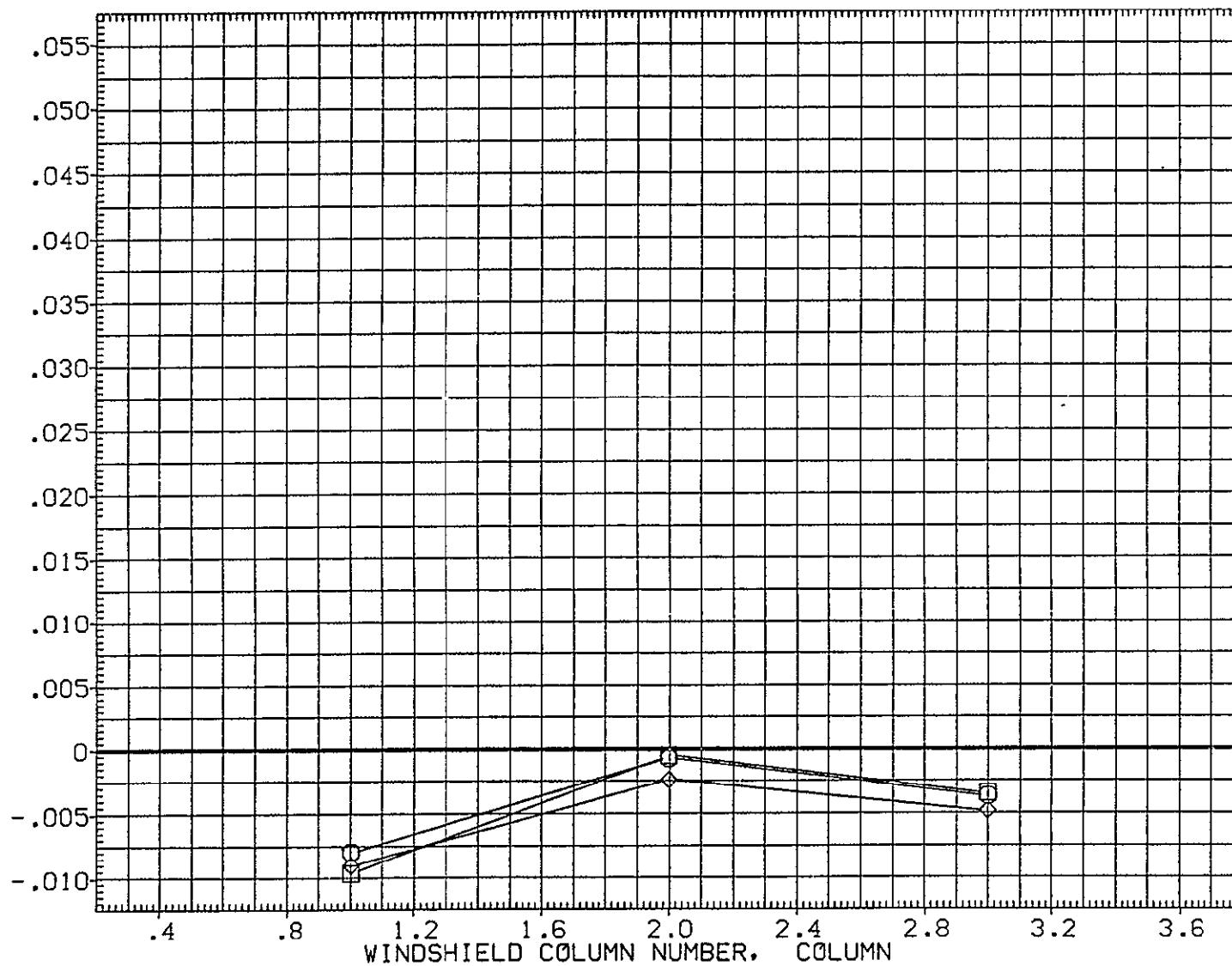


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	39.947
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

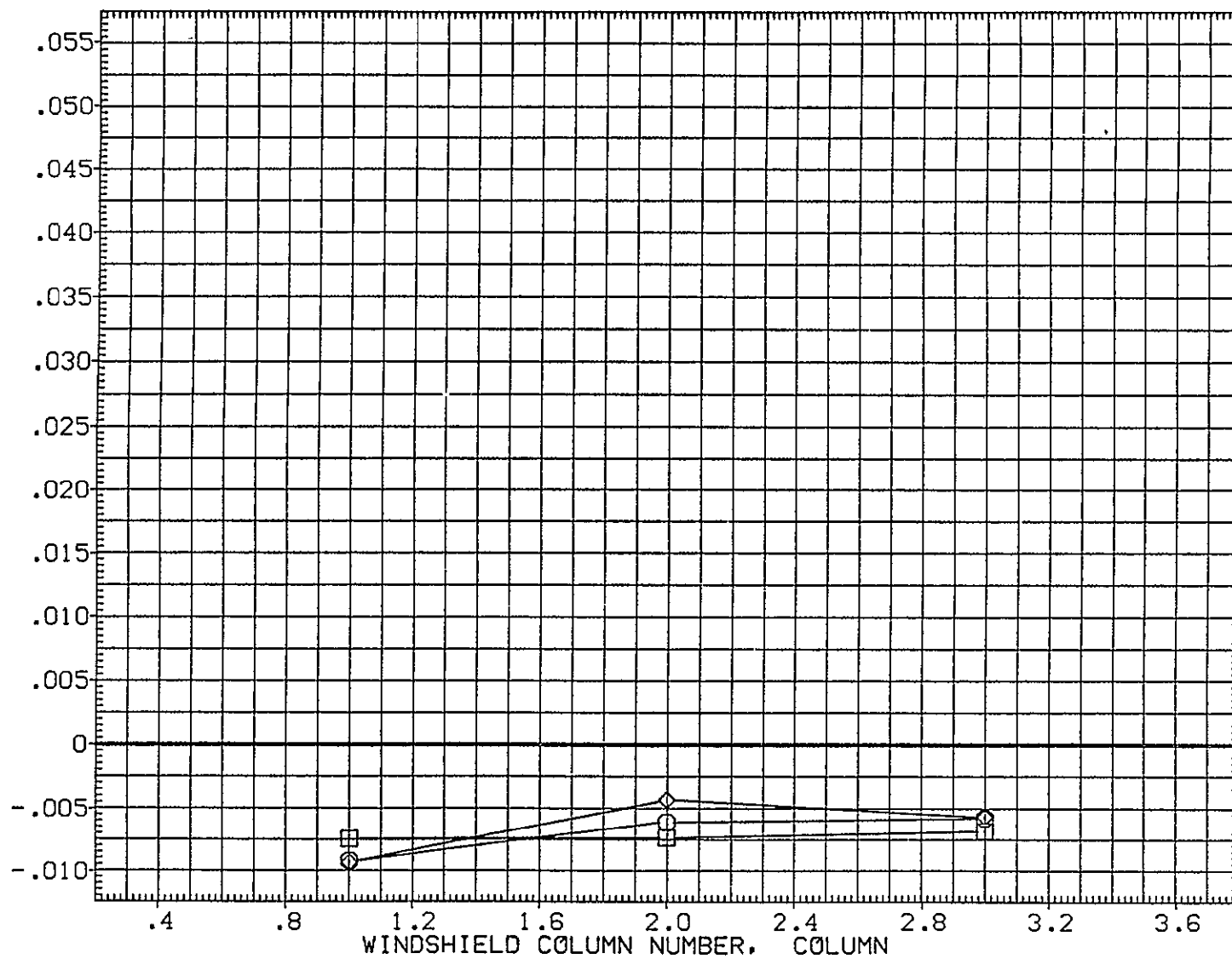


FIG. 11 WINDSHIELD



ARC 3.5-198 0438 140C 0RB WINDSHIELD

(BEZE35)

SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	44.132
2.000		
3.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-L .000
ELEV-R	.000	SPDBRK 41.533
BDFLAP	15.667	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

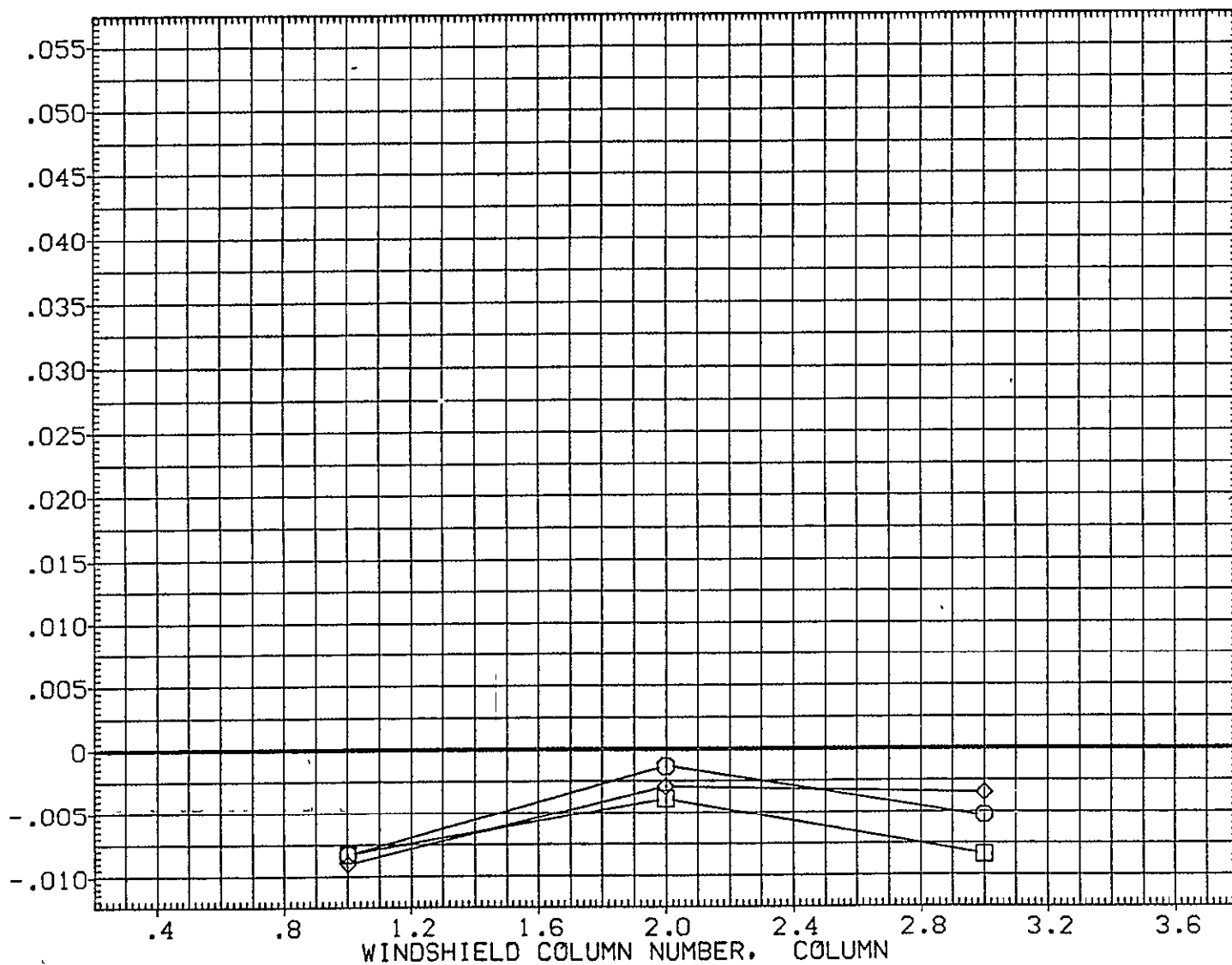


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	19.694
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

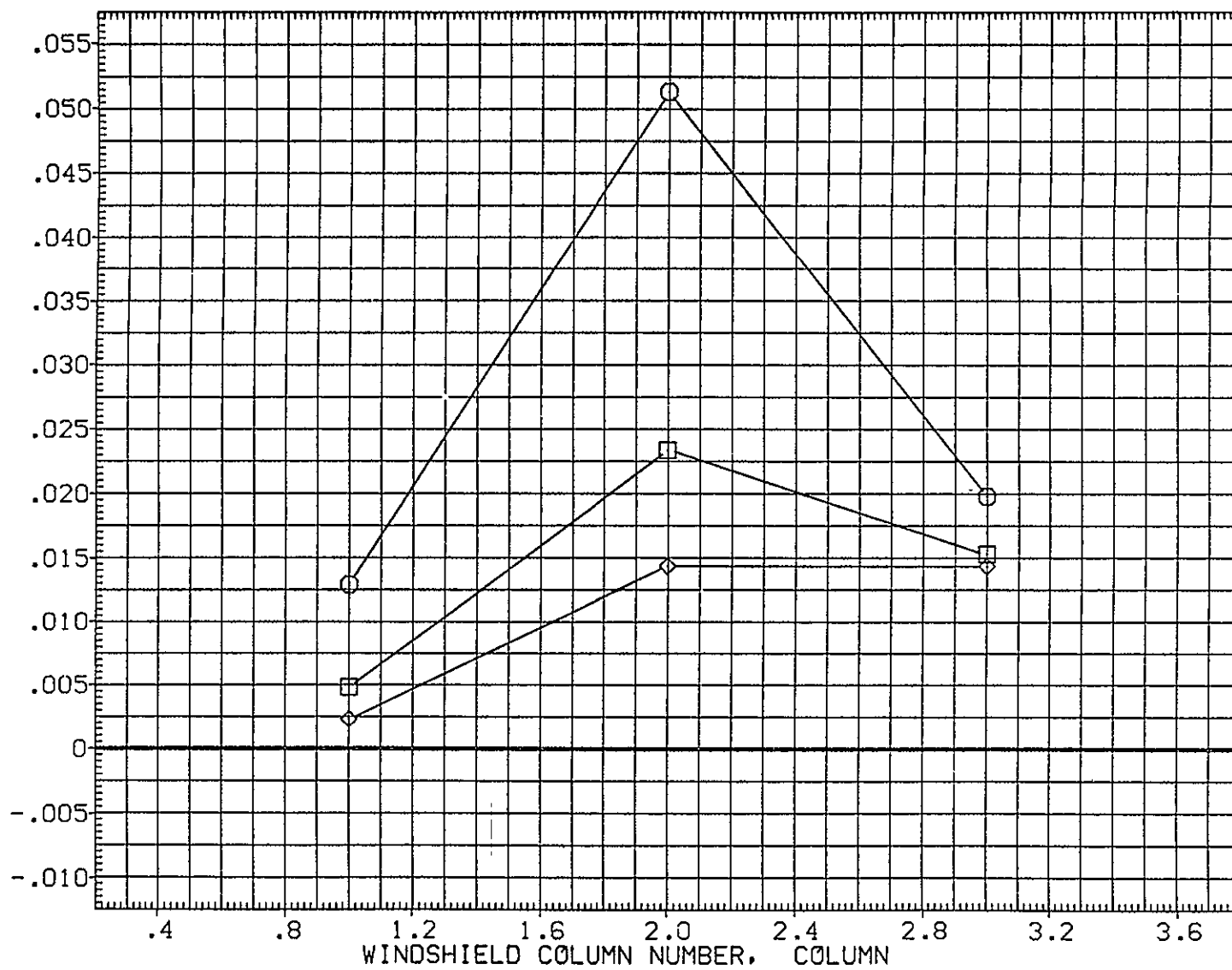


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE03)

SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	24.885
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

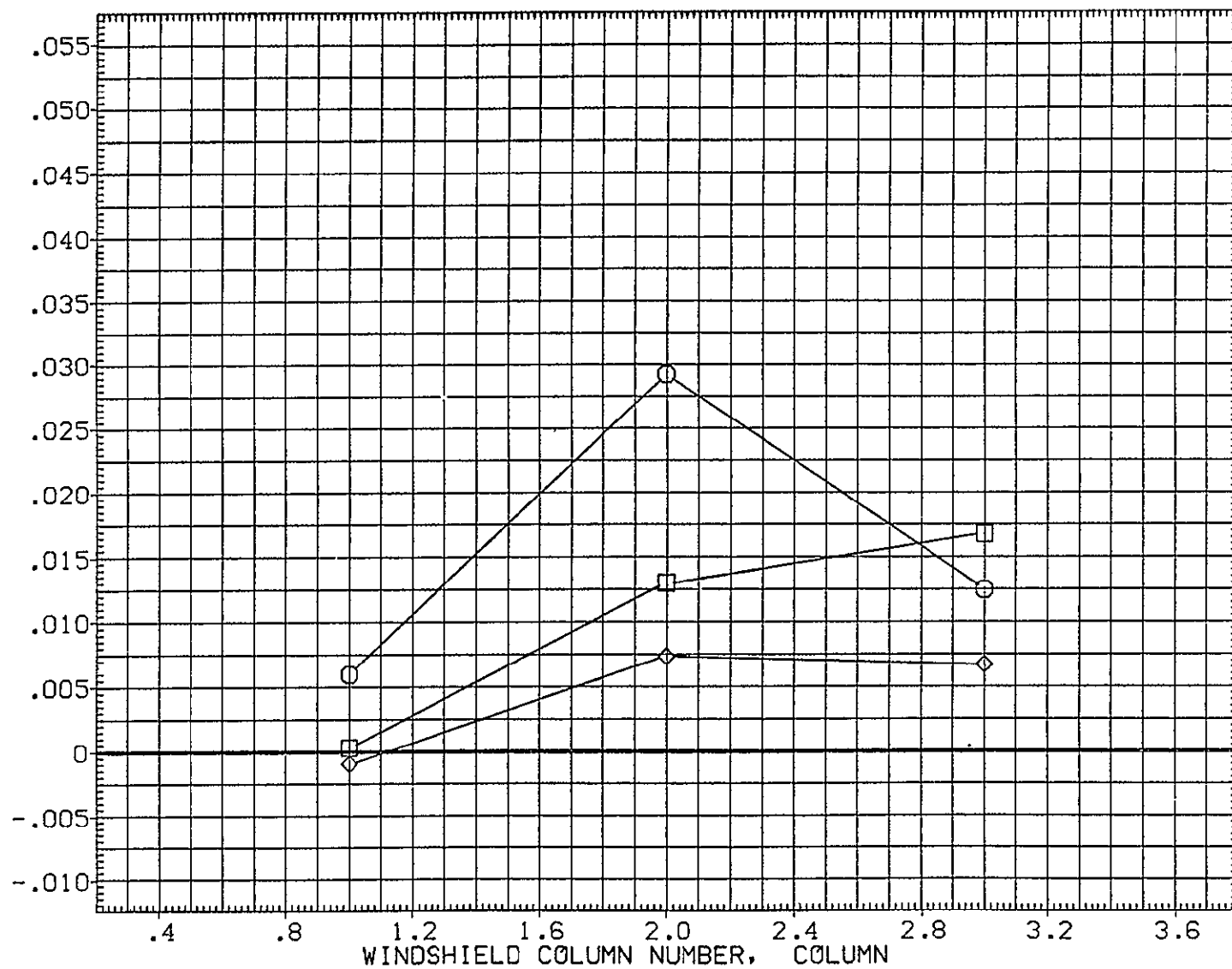


FIG. 11 WINDSHIELD

SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	29.494
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

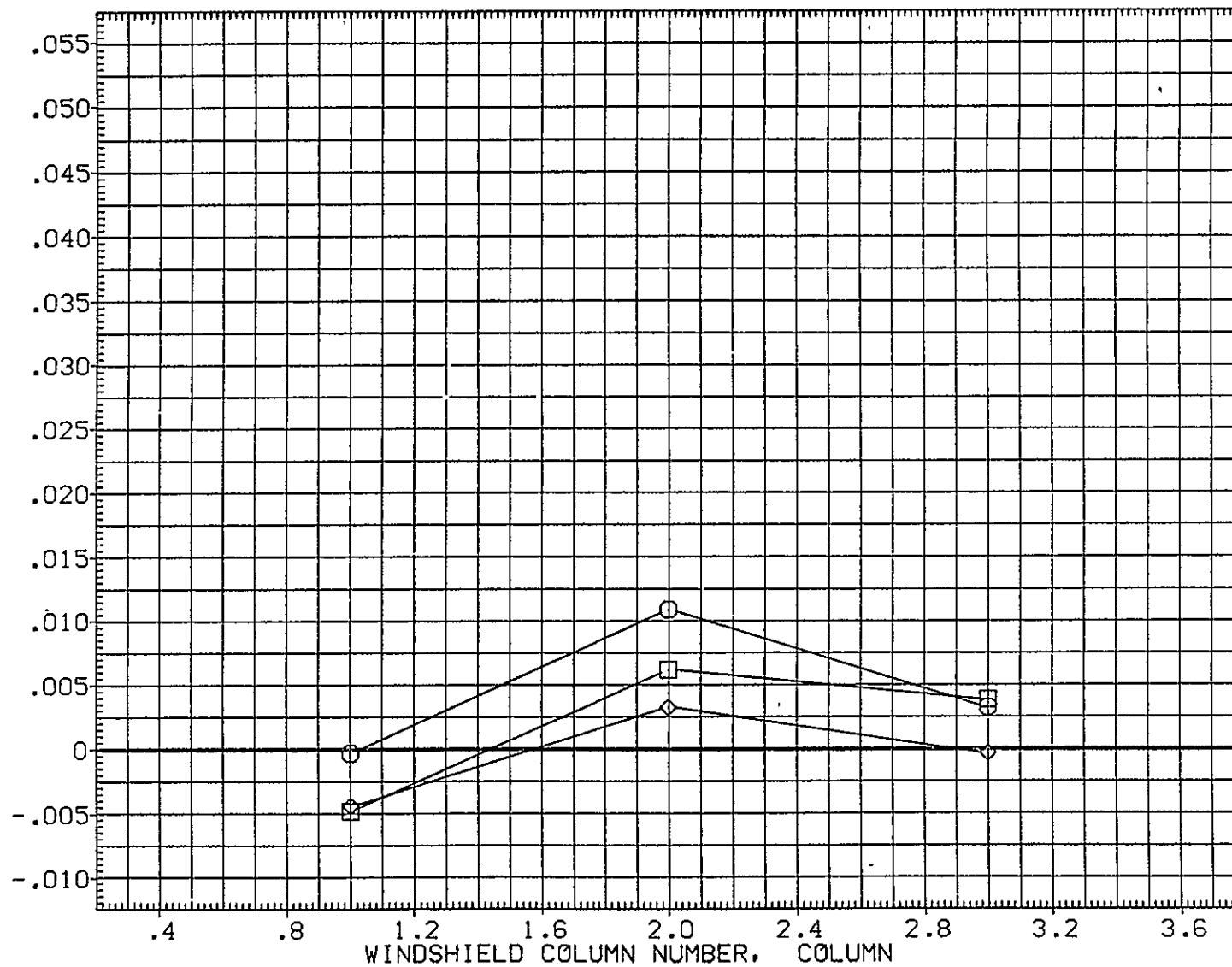


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	34.784
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

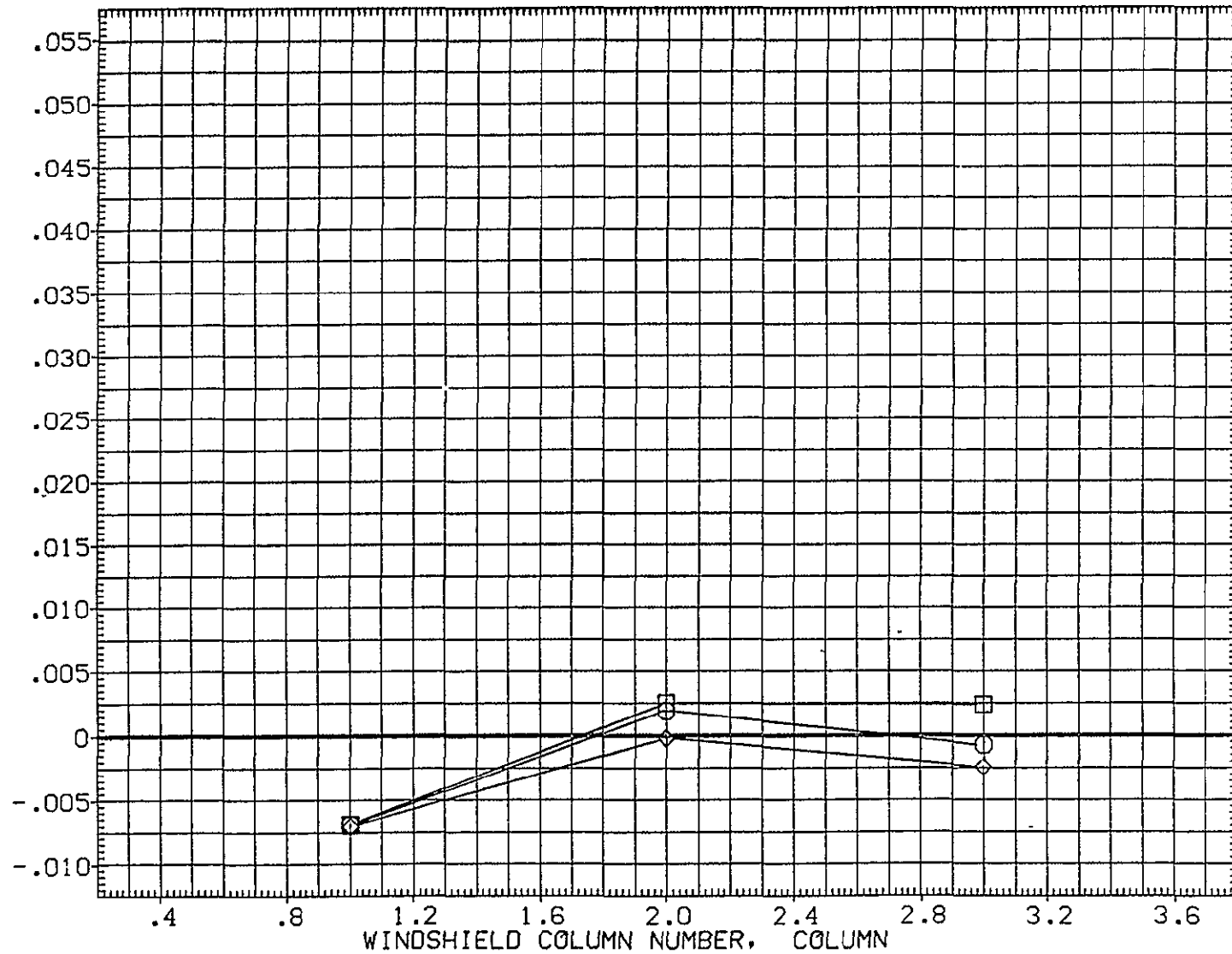


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	39.931
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

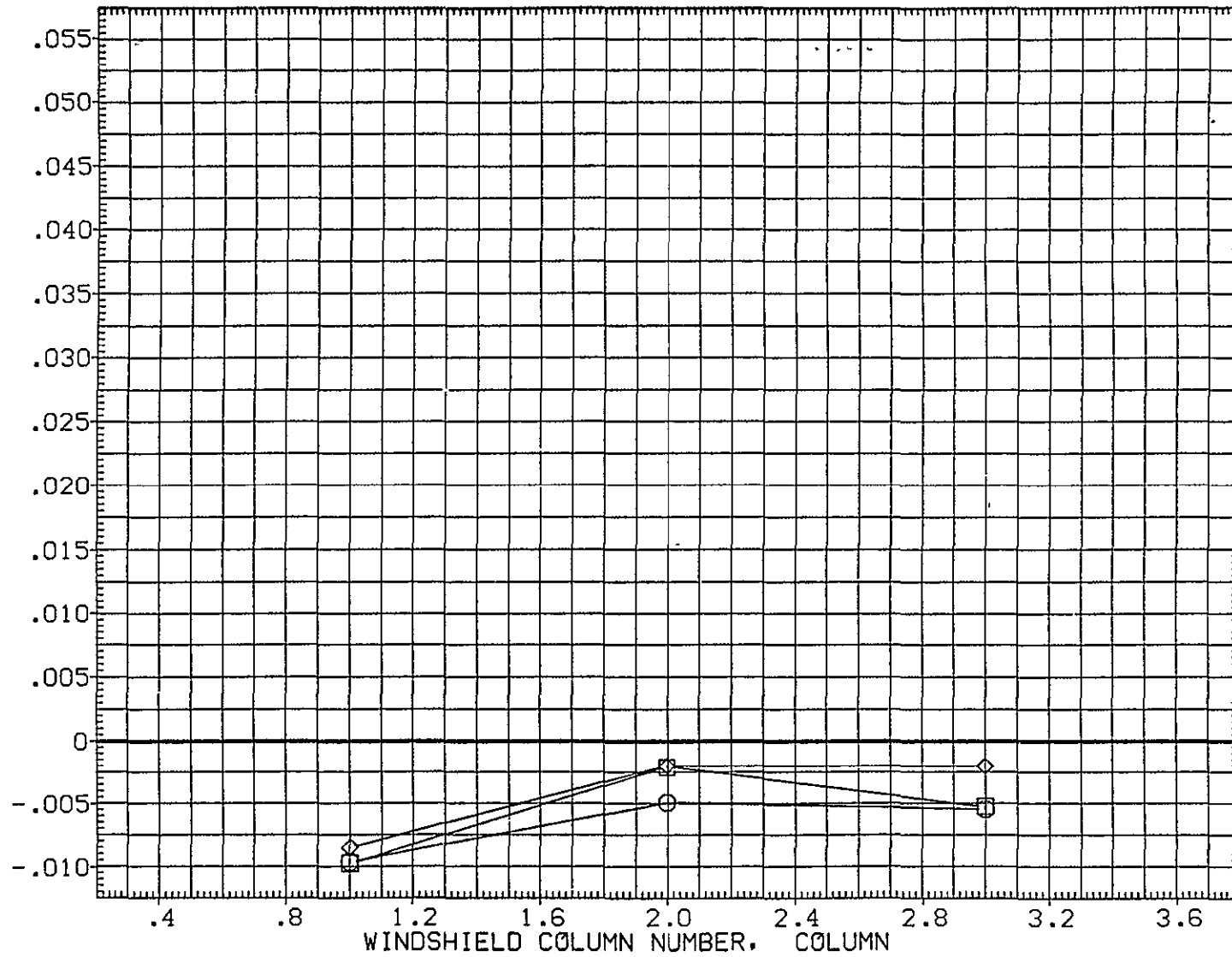


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	44.104
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

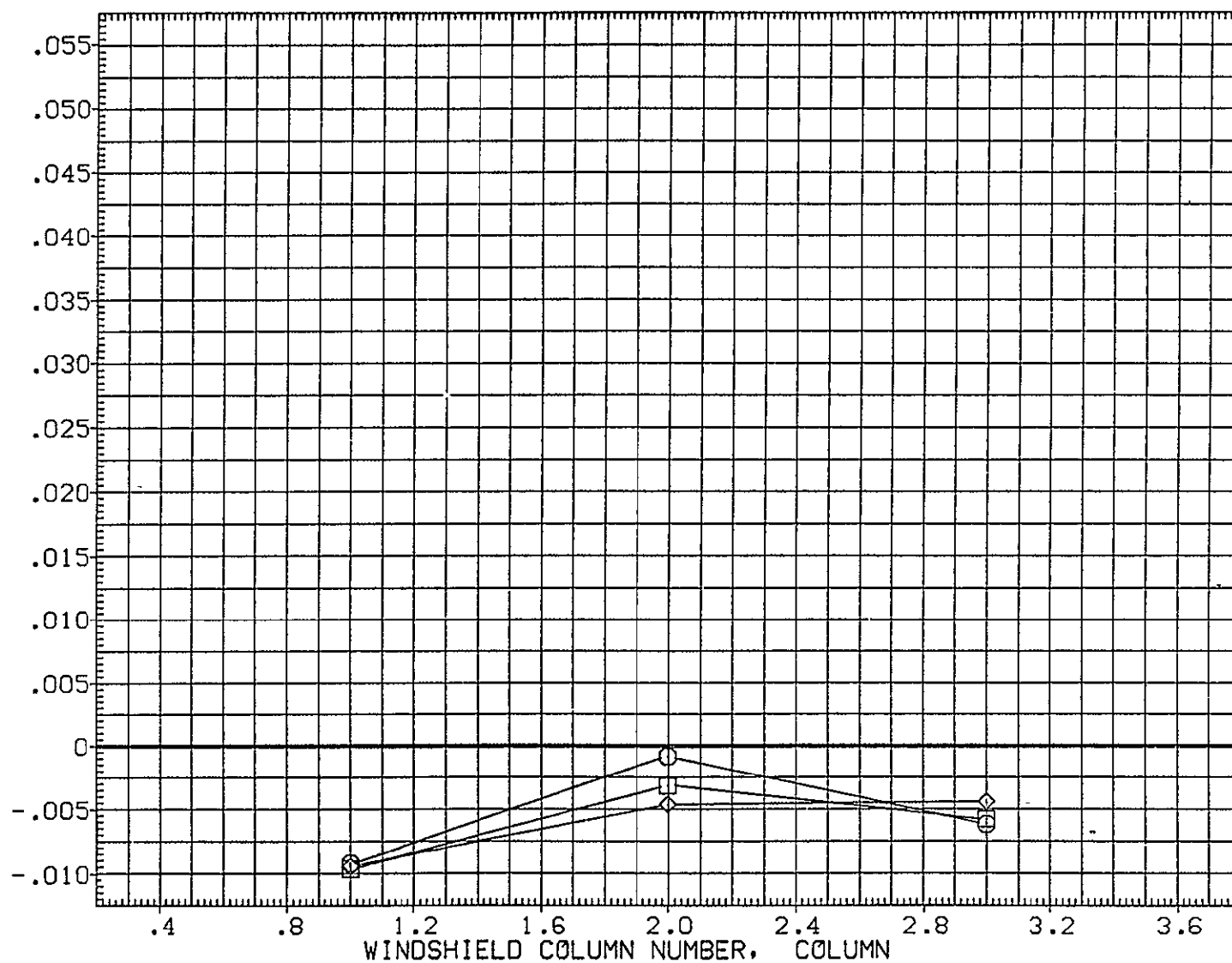


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	48.803
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

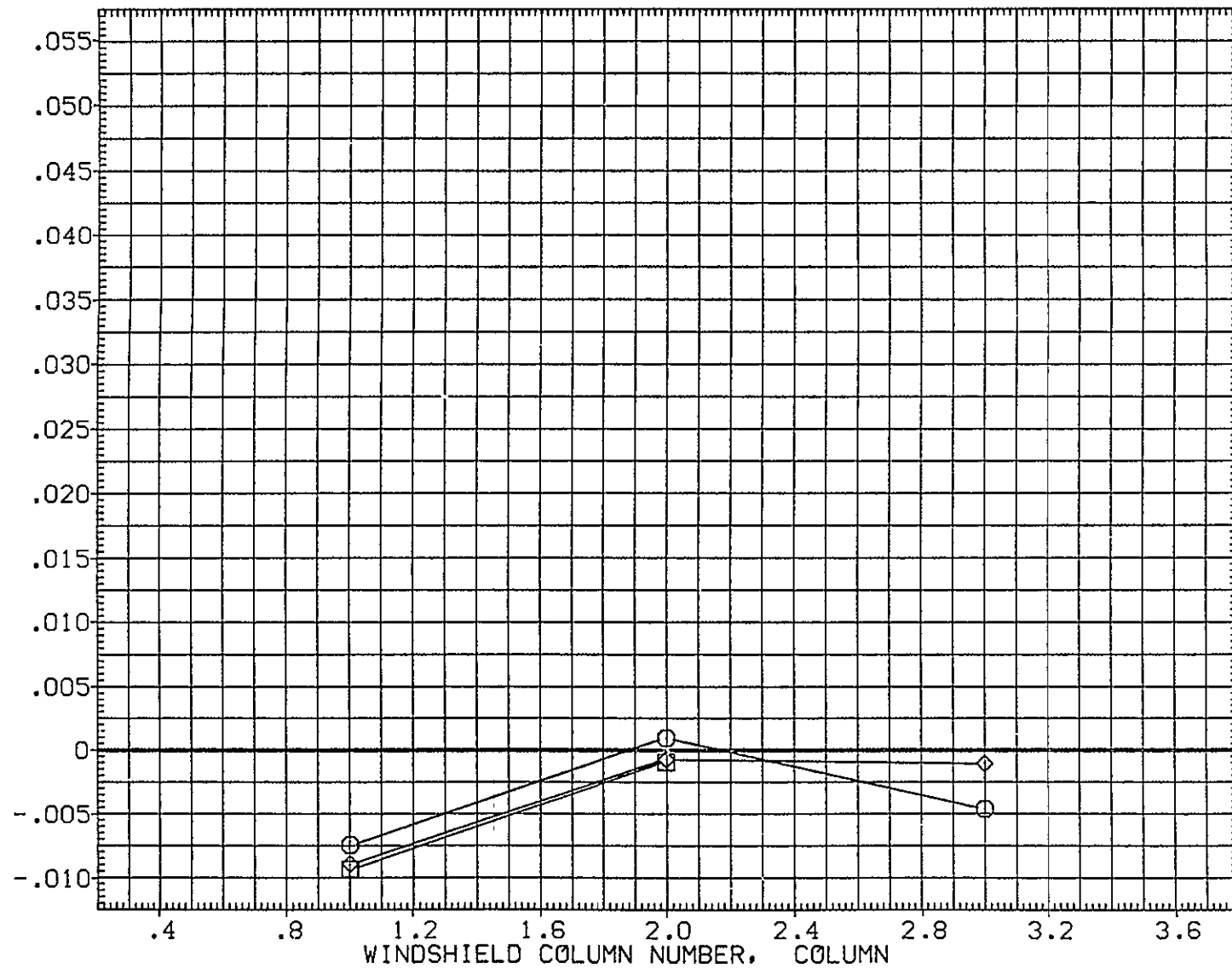


FIG. 11 WINDSHIELD



SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	19.776
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

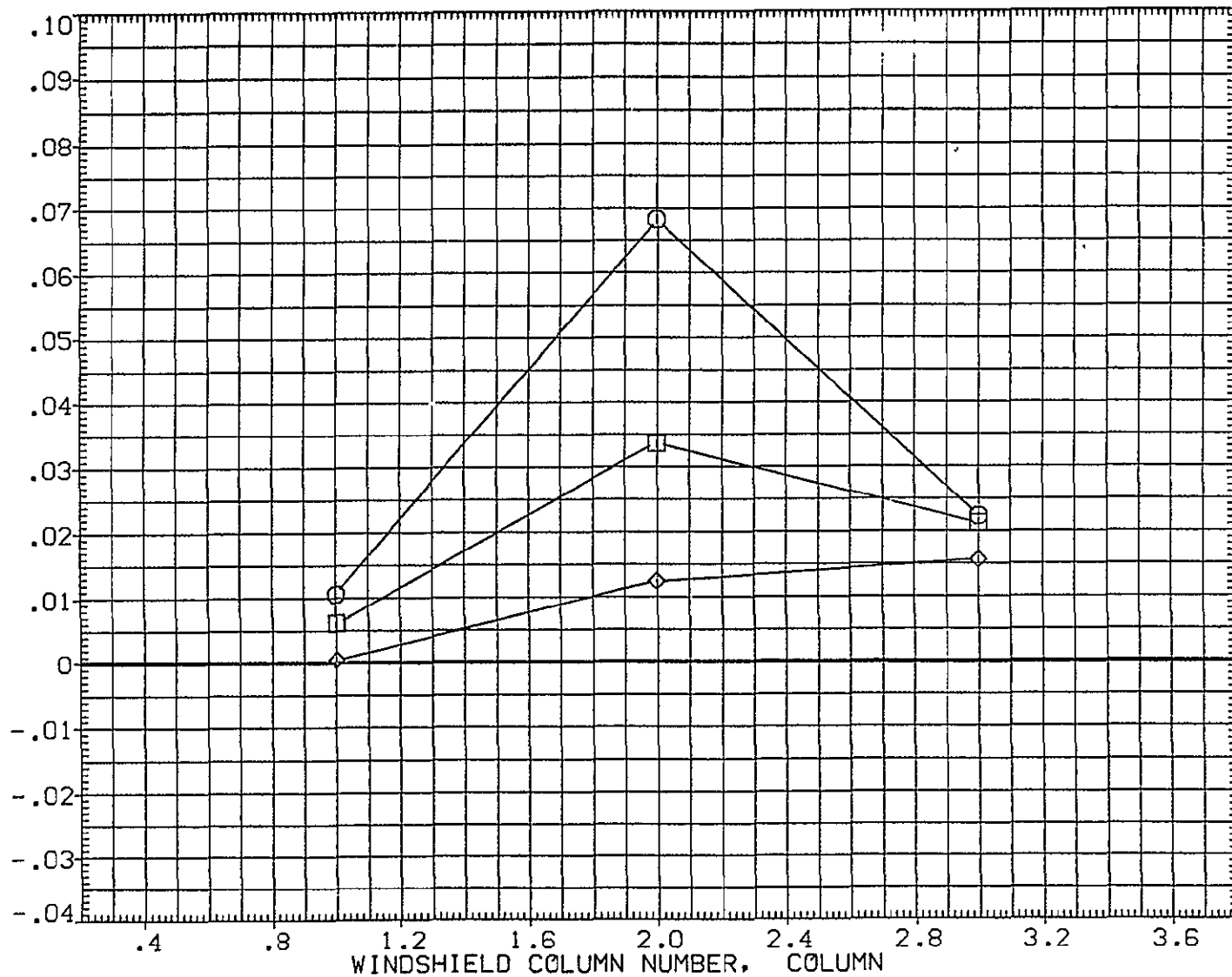


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	24.809
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

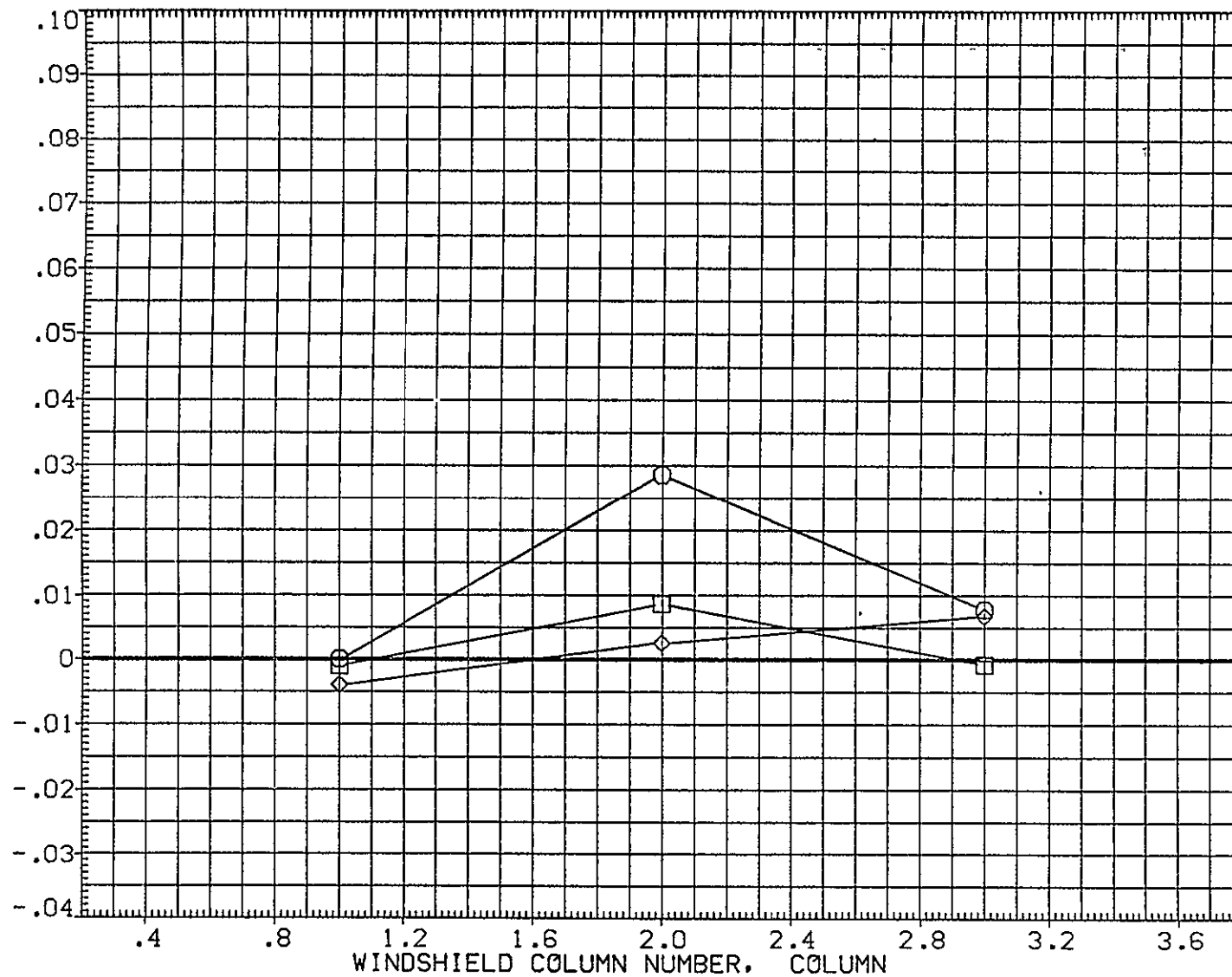


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(CEZE04)

SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	29.649
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

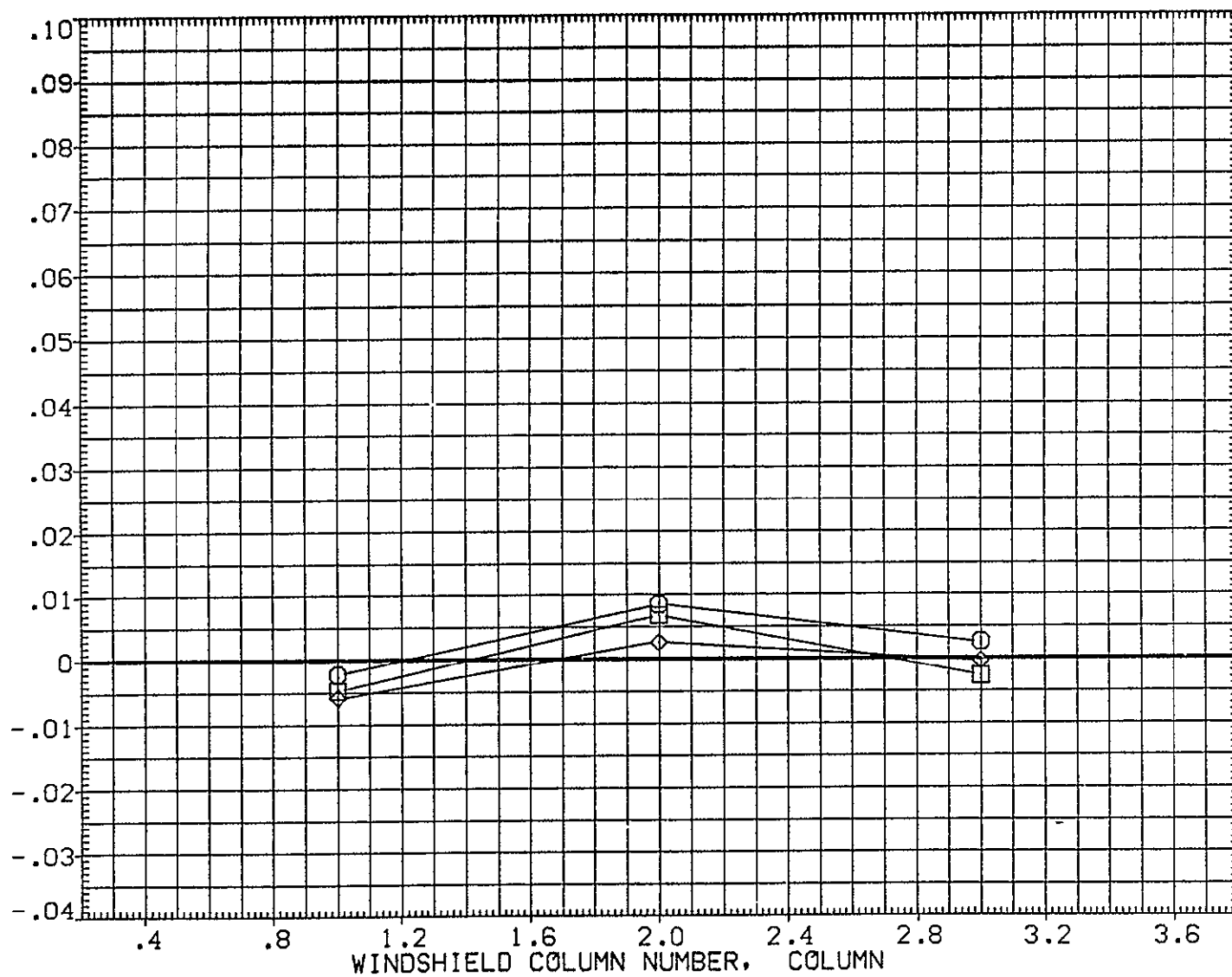


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	34.668
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

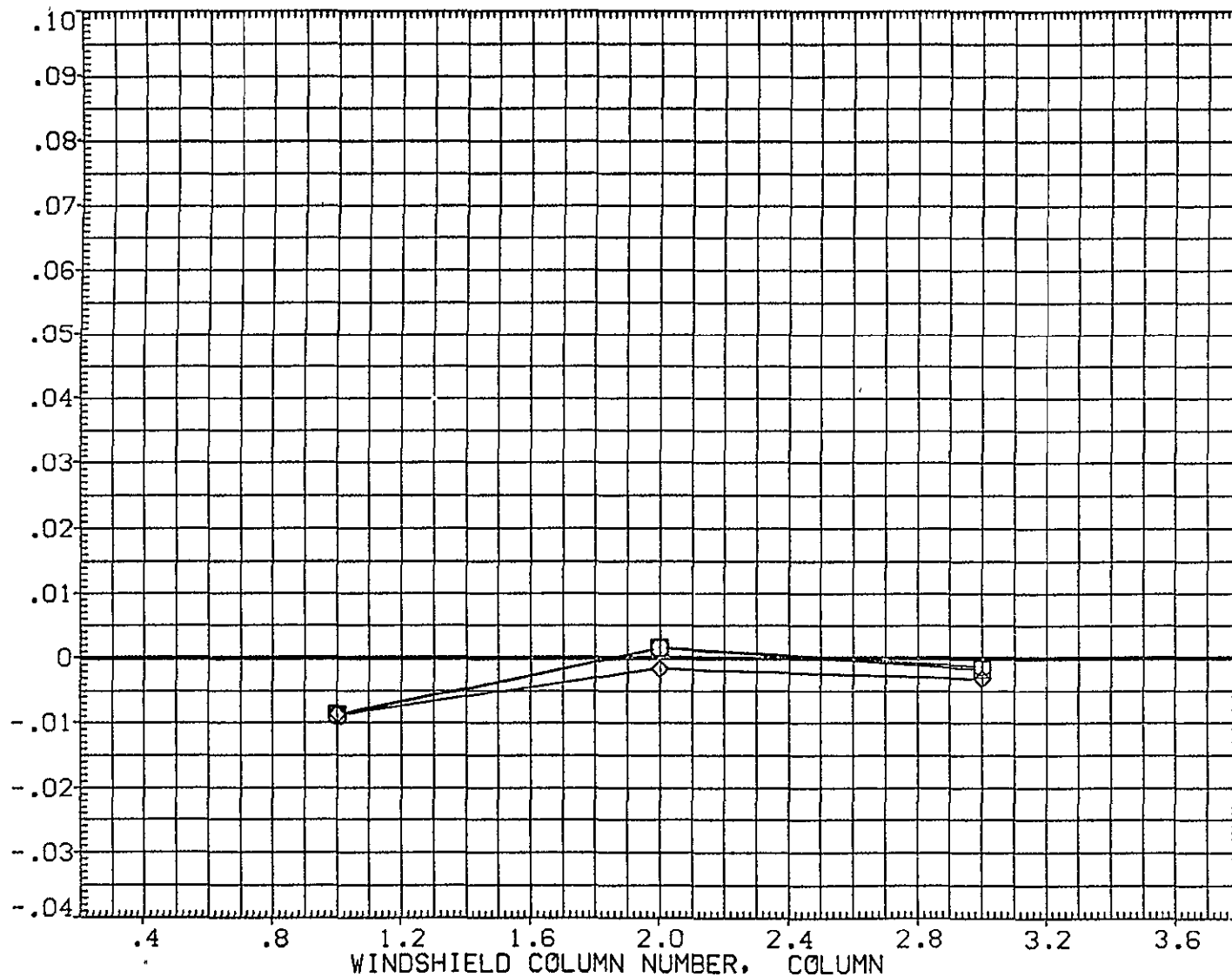


FIG. 11 WINDSHIELD

SYMBOL  
 ○  
 □  
 ◇

RAY      MACH      ALPHA  
 1.000    7.320    39.840  
 2.000  
 3.000

PARAMETRIC VALUES  
 BETA      .000    ELEV-L      .117  
 ELEV-R    .000    SPOBRK      .000  
 BDFLAP    .000    RN/L        6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

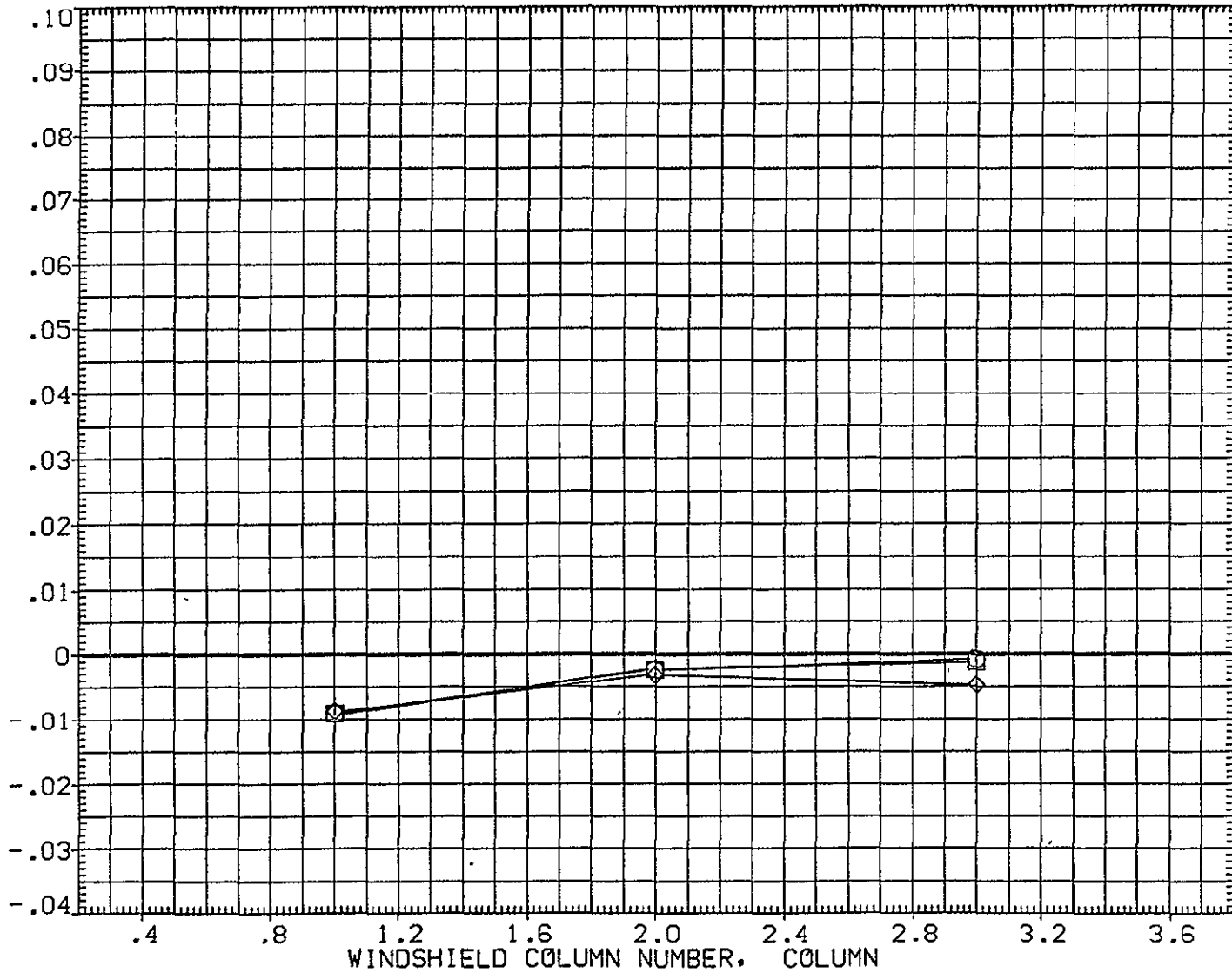


FIG. 11 WINDSHIELD

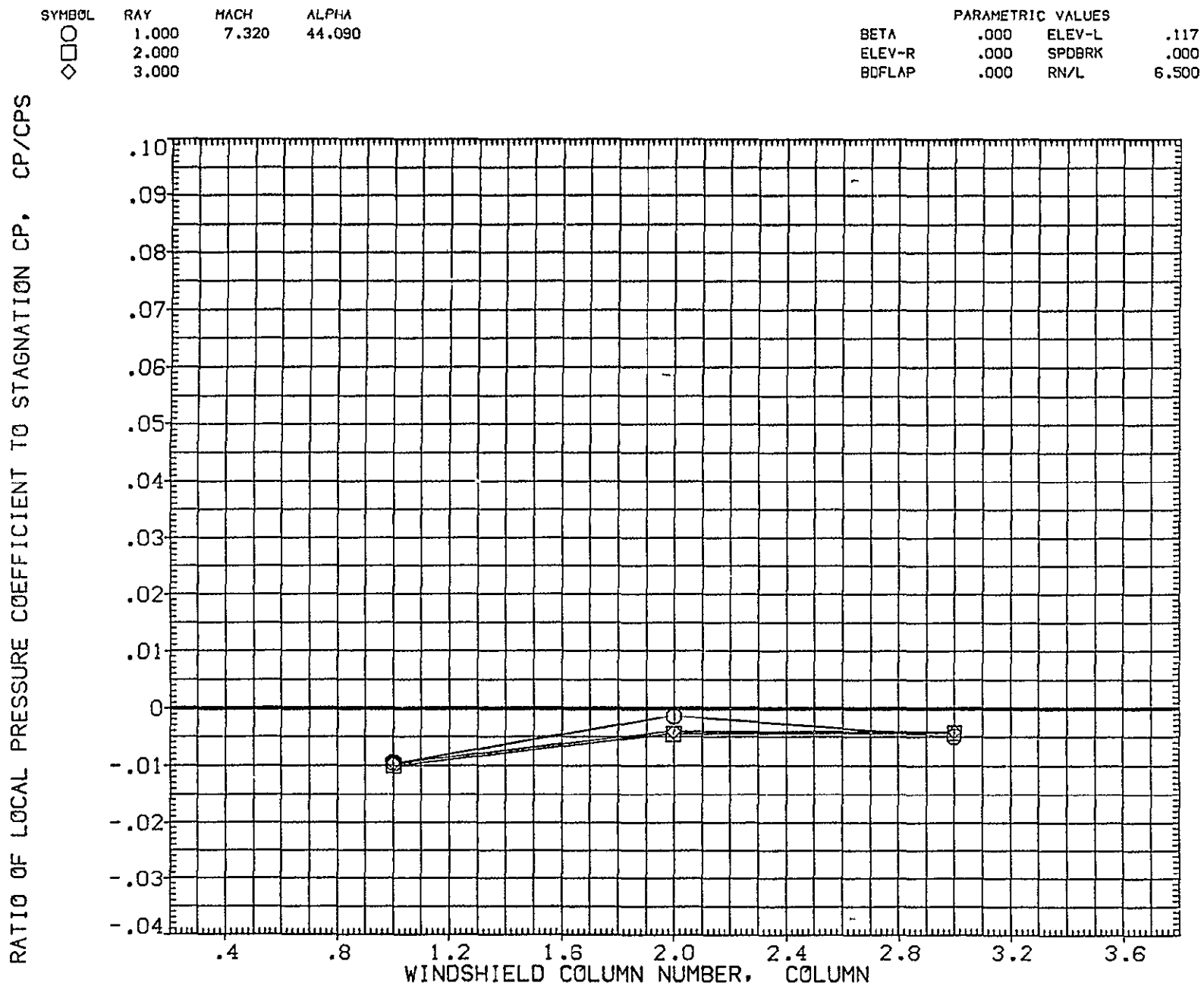


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(CEZE05)

SYMBOL  
○  
□  
◇

RAY  
1.000  
2.000  
3.000

MACH  
7.320  
19.496

ALPHA  
19.496

PARAMETRIC VALUES  
BETA .000 ELEV-L 5.050  
ELEV-R 4.100 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

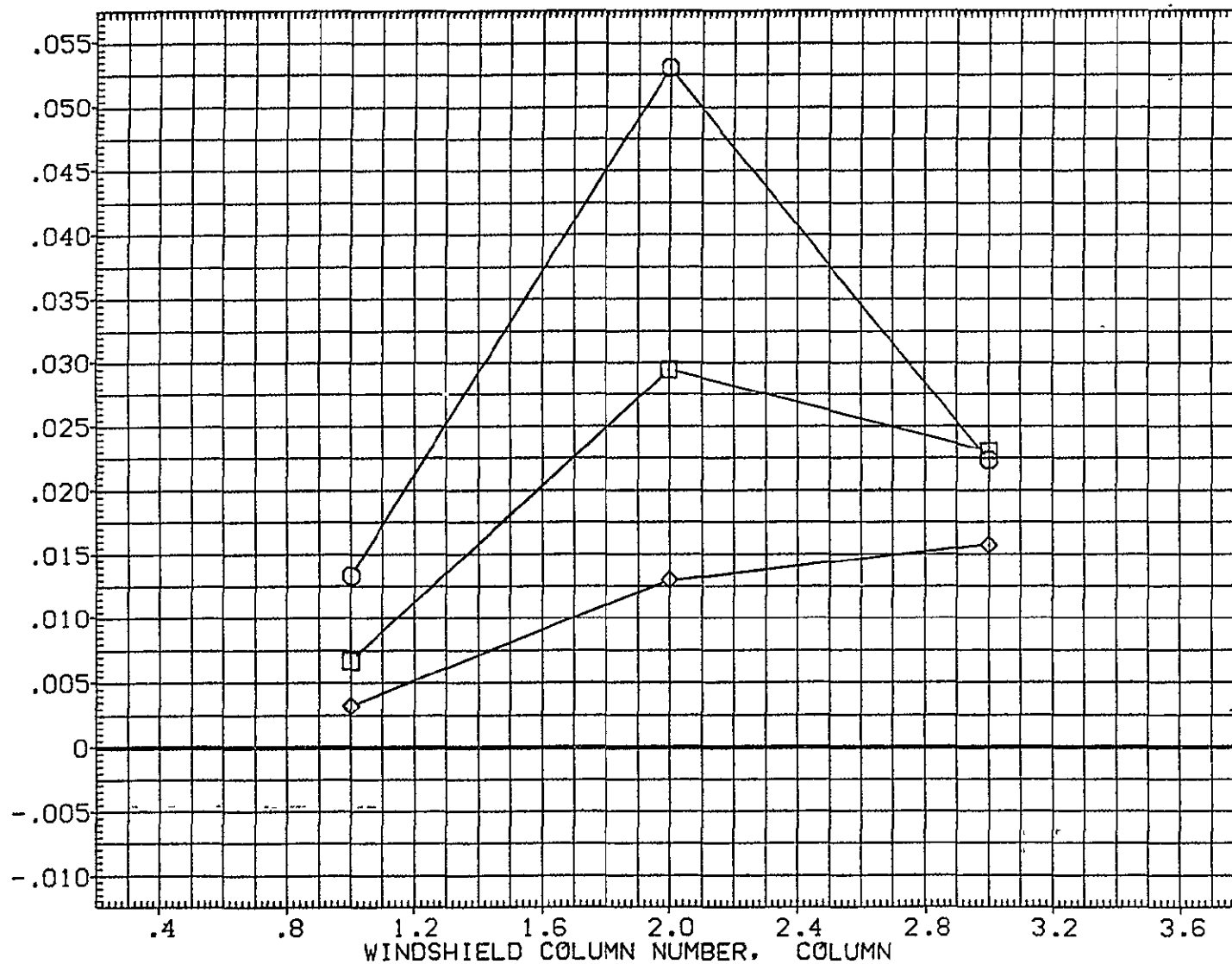


FIG. 11 WINDSHIELD

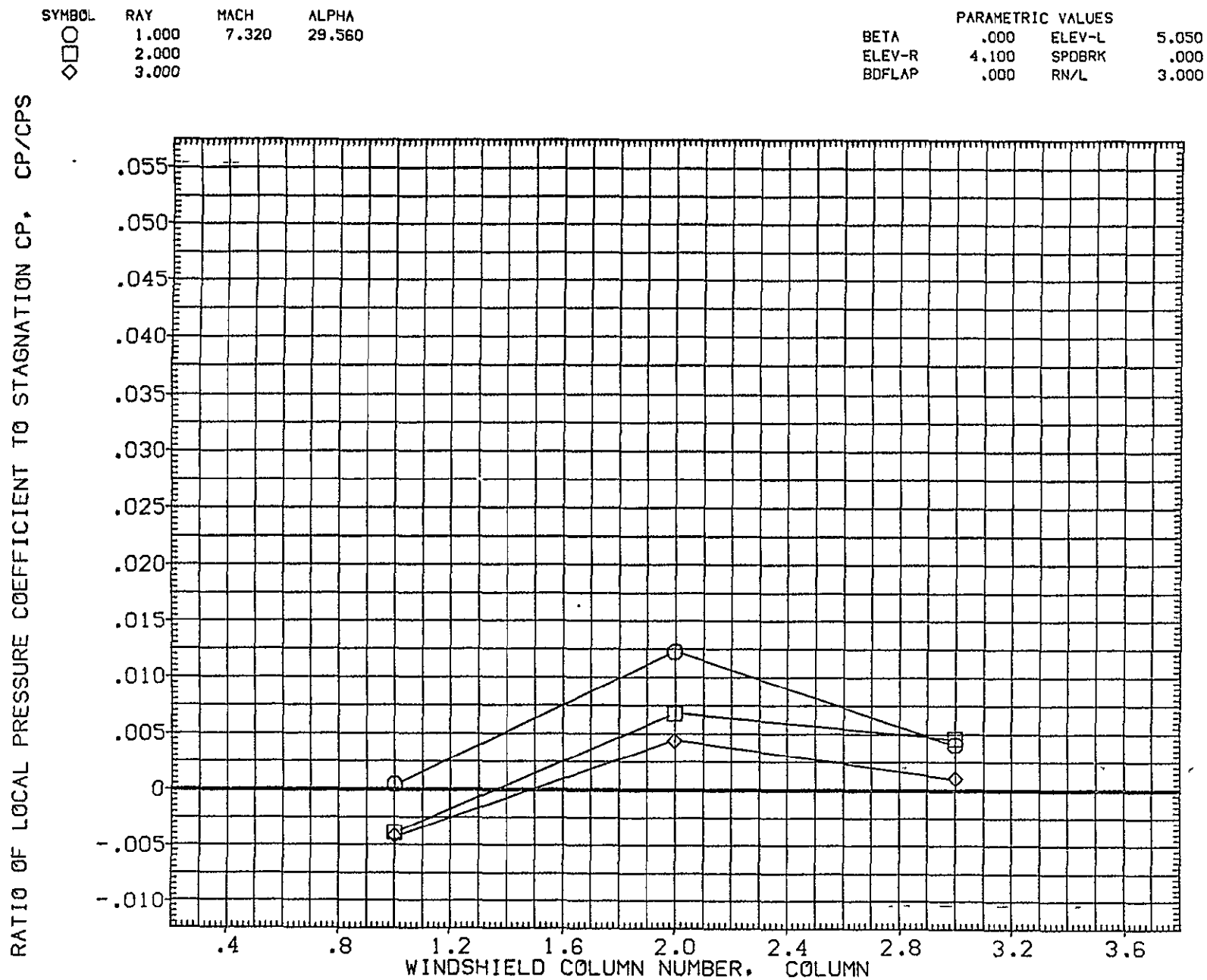


FIG. 11 WINDSHIELD



ARC 3.5-198 OH38 140C ORB WINDSHIELD

(CEZE05)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	32.095
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

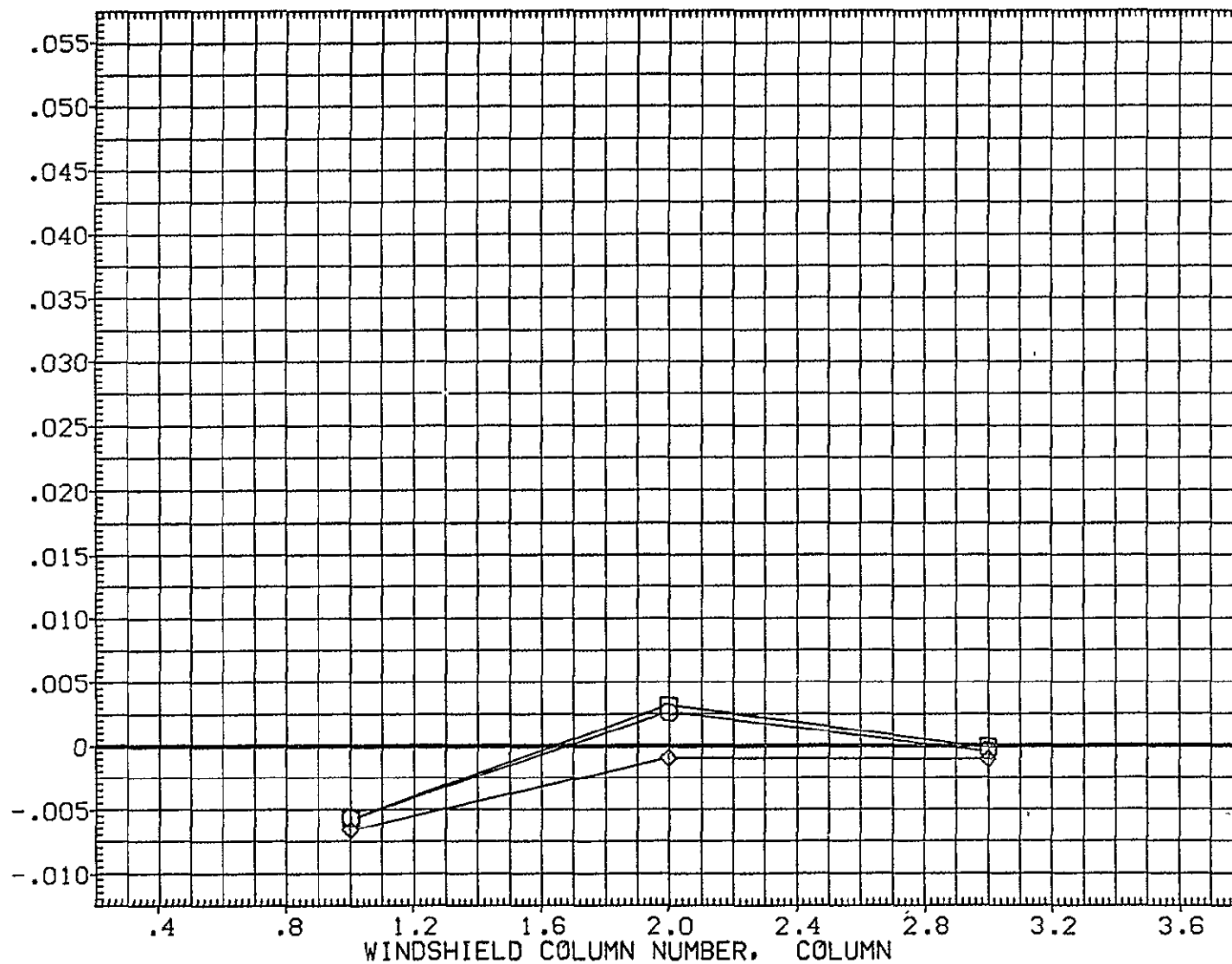


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	39.911
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

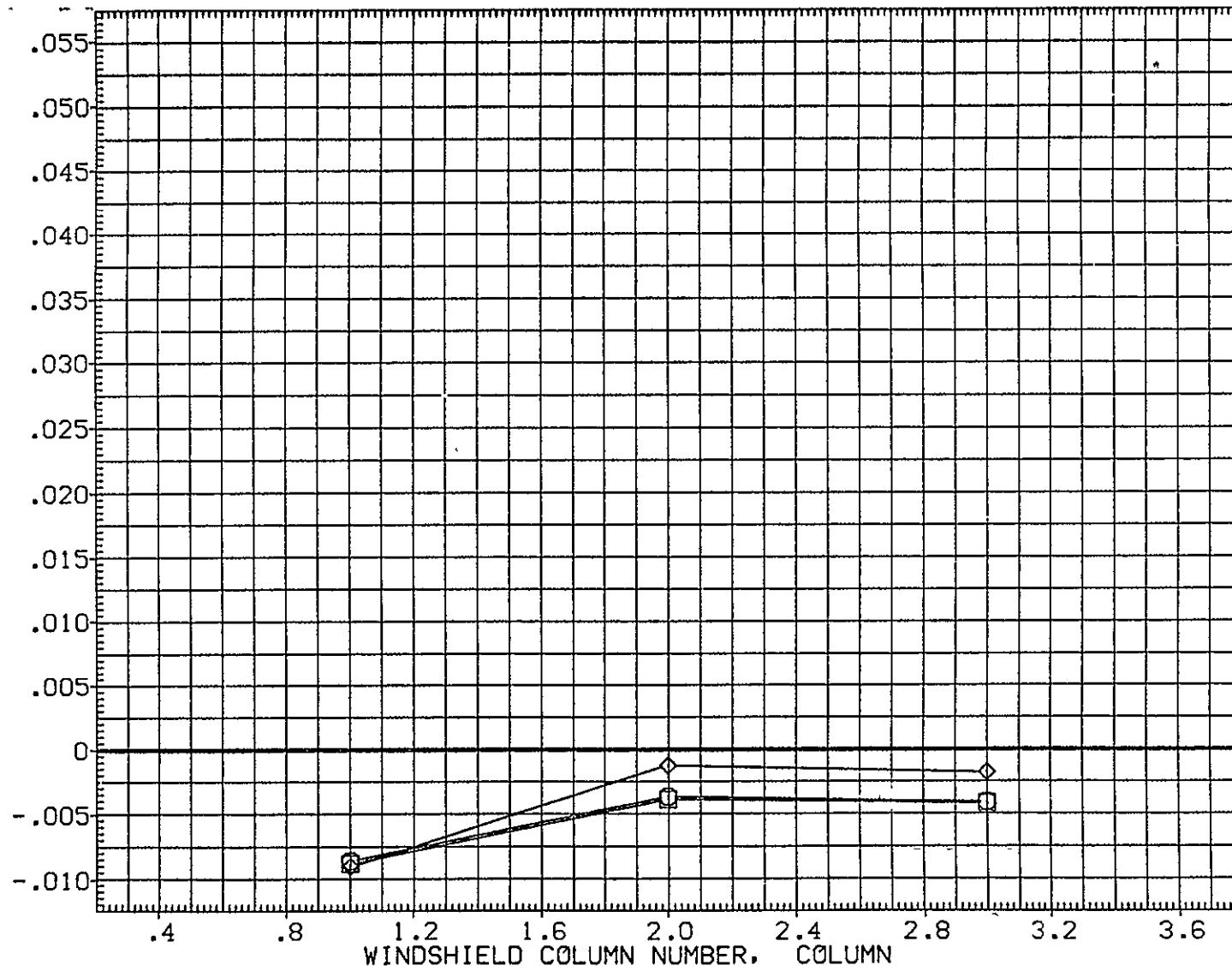


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(CEZE05)

SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	45.000
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

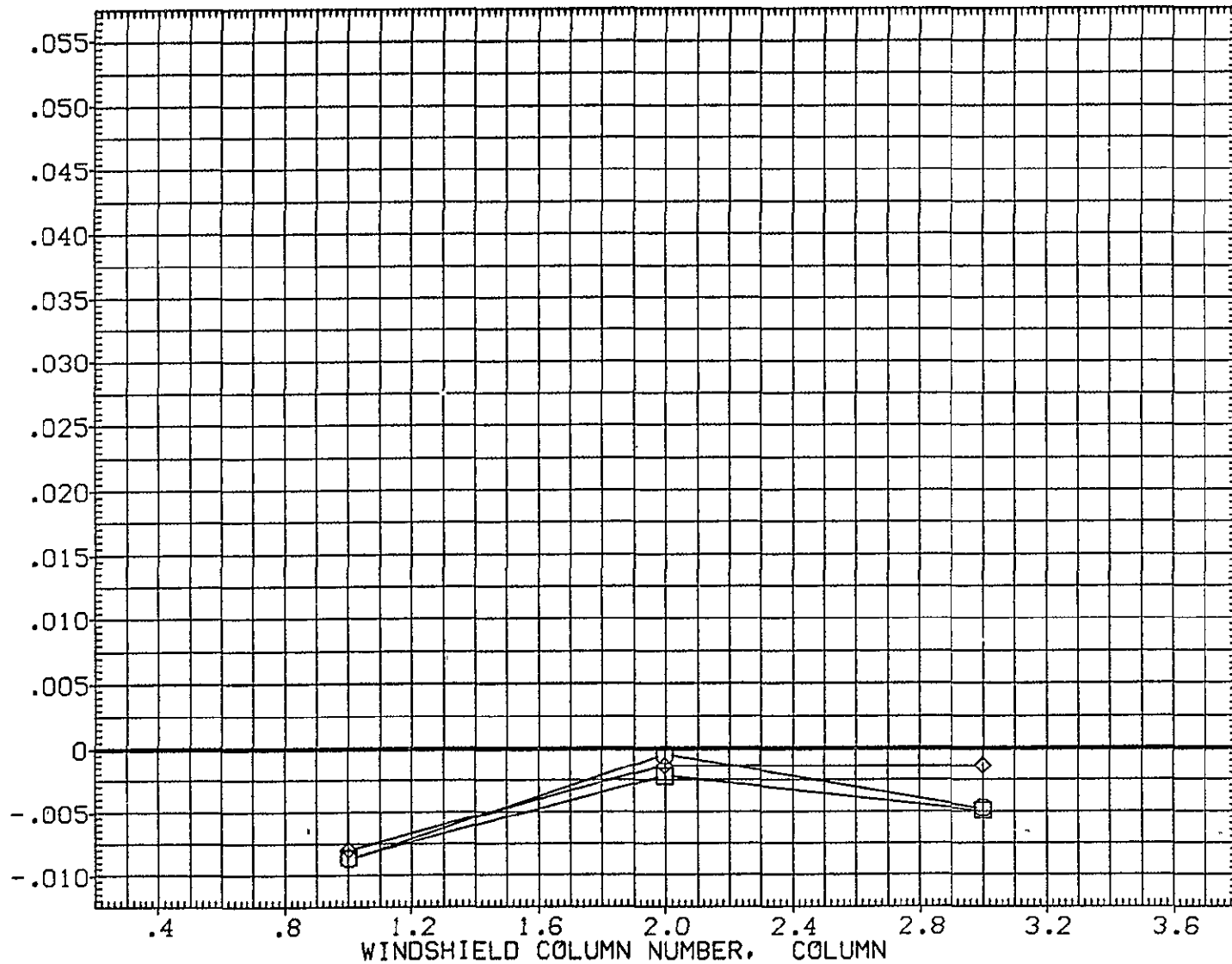


FIG. 11 WINDSHIELD

SYMBOL  
○  
□  
◇RAY  
1.000  
2.000  
3.000  
MACH  
7.320  
ALPHA  
50.000PARAMETRIC VALUES  
BETA .000 ELEV-L 5.050  
ELEV-R 4.100 SPDBRK .000  
BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

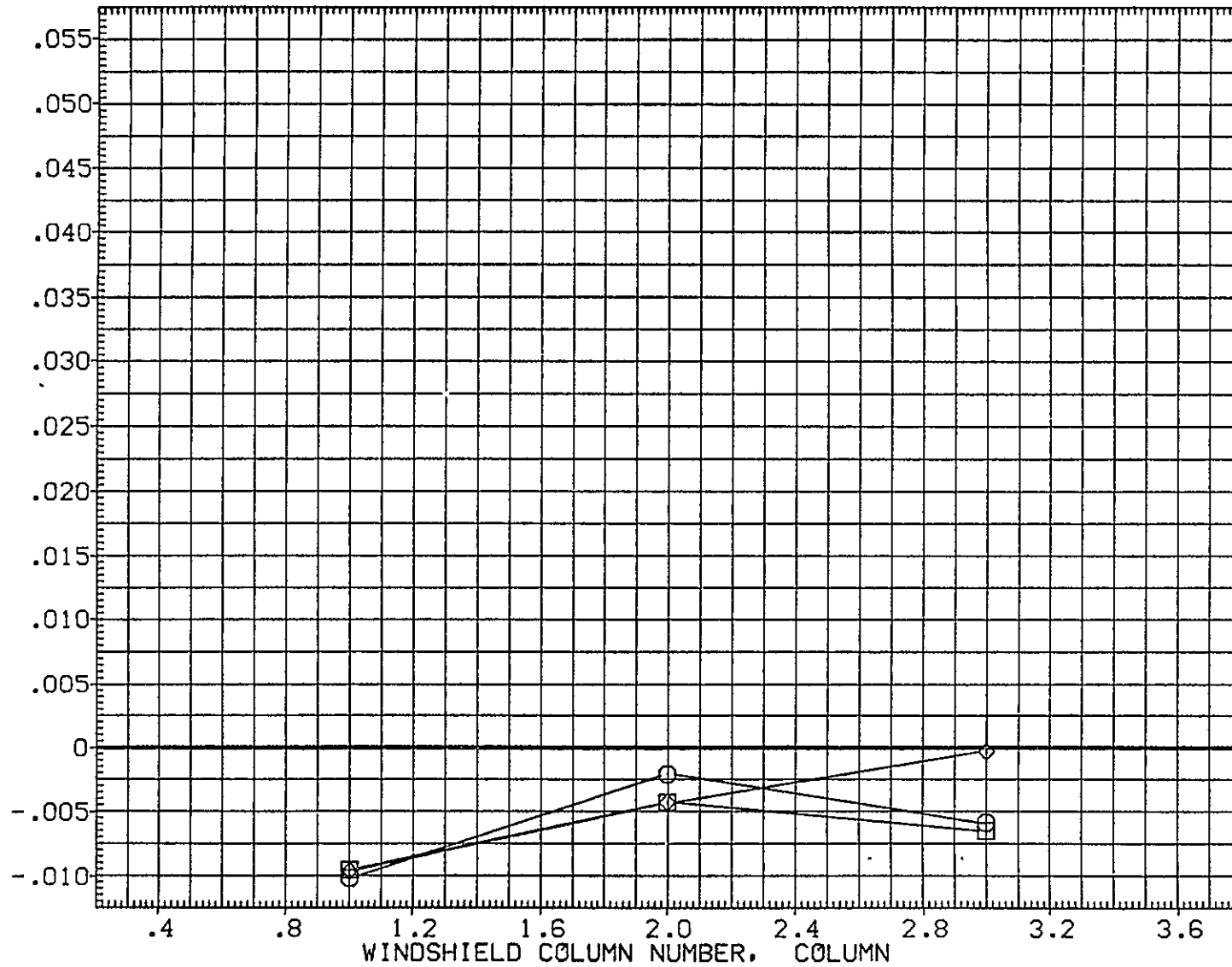


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE07)

SYMBOL  
○  
□  
◇

RAY  
1.000  
2.000  
3.000

MACH  
7.320

ALPHA  
19.132

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BOFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

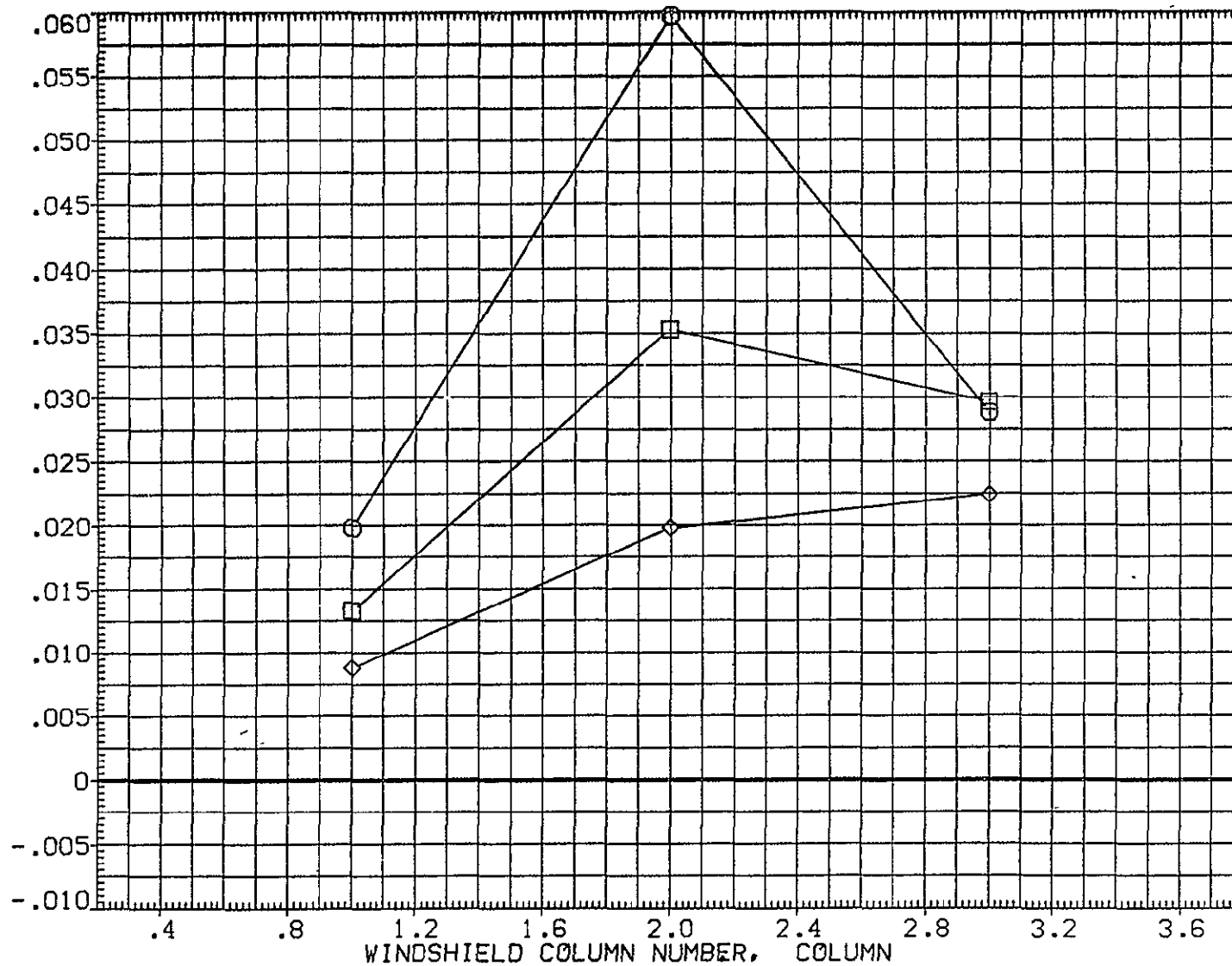


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	29.758
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

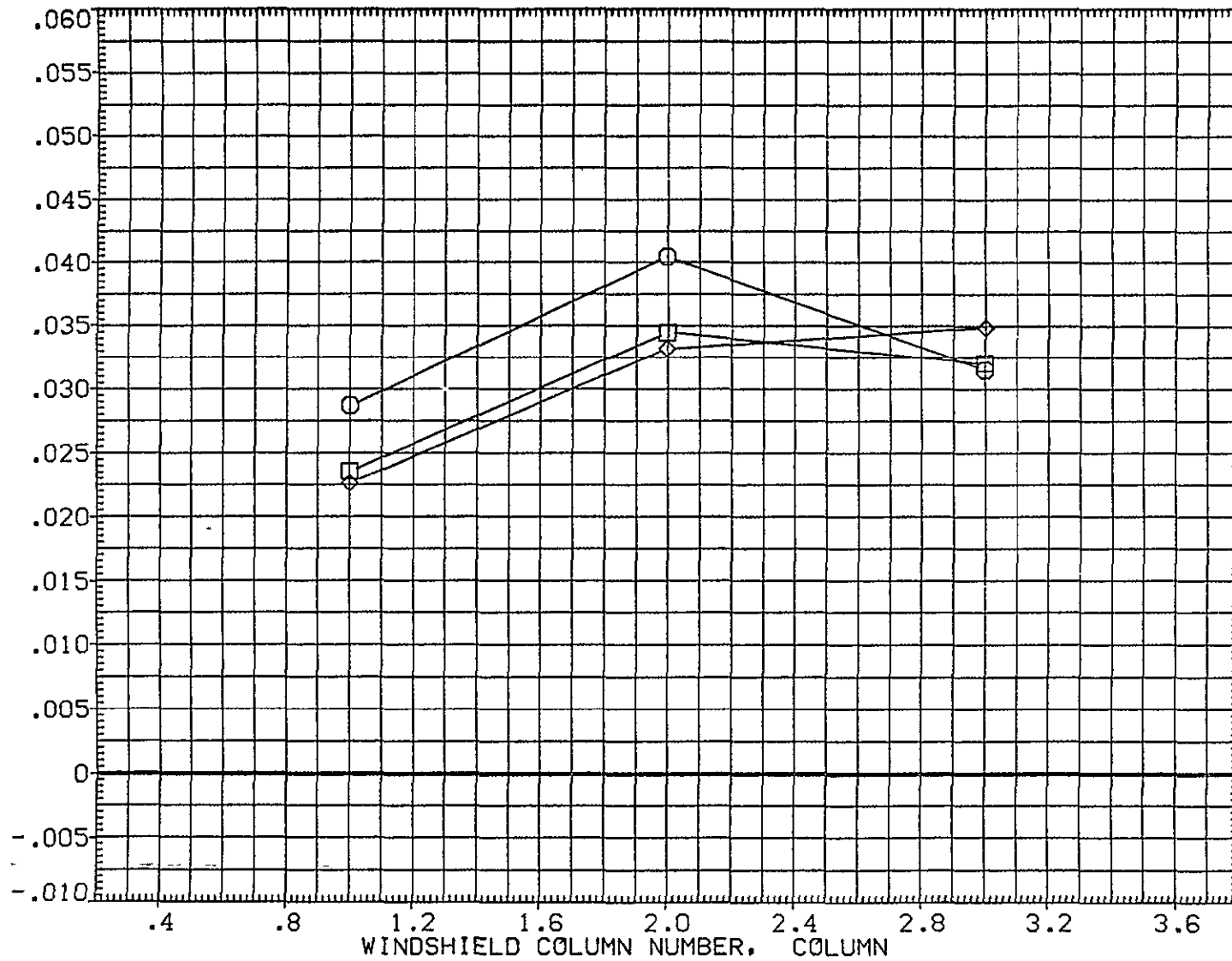


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE07)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	35.000
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
80FLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

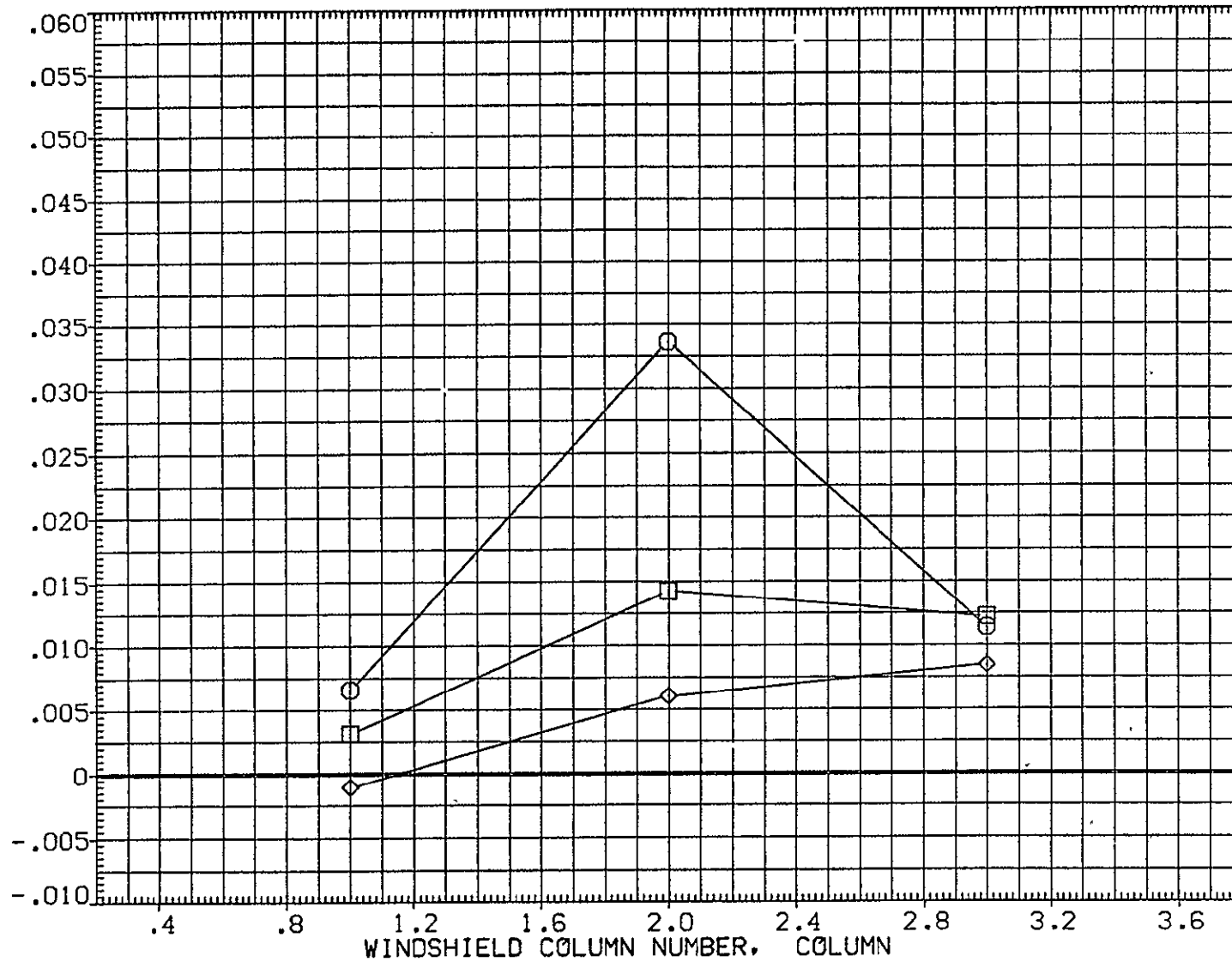


FIG. 11 WINDSHIELD

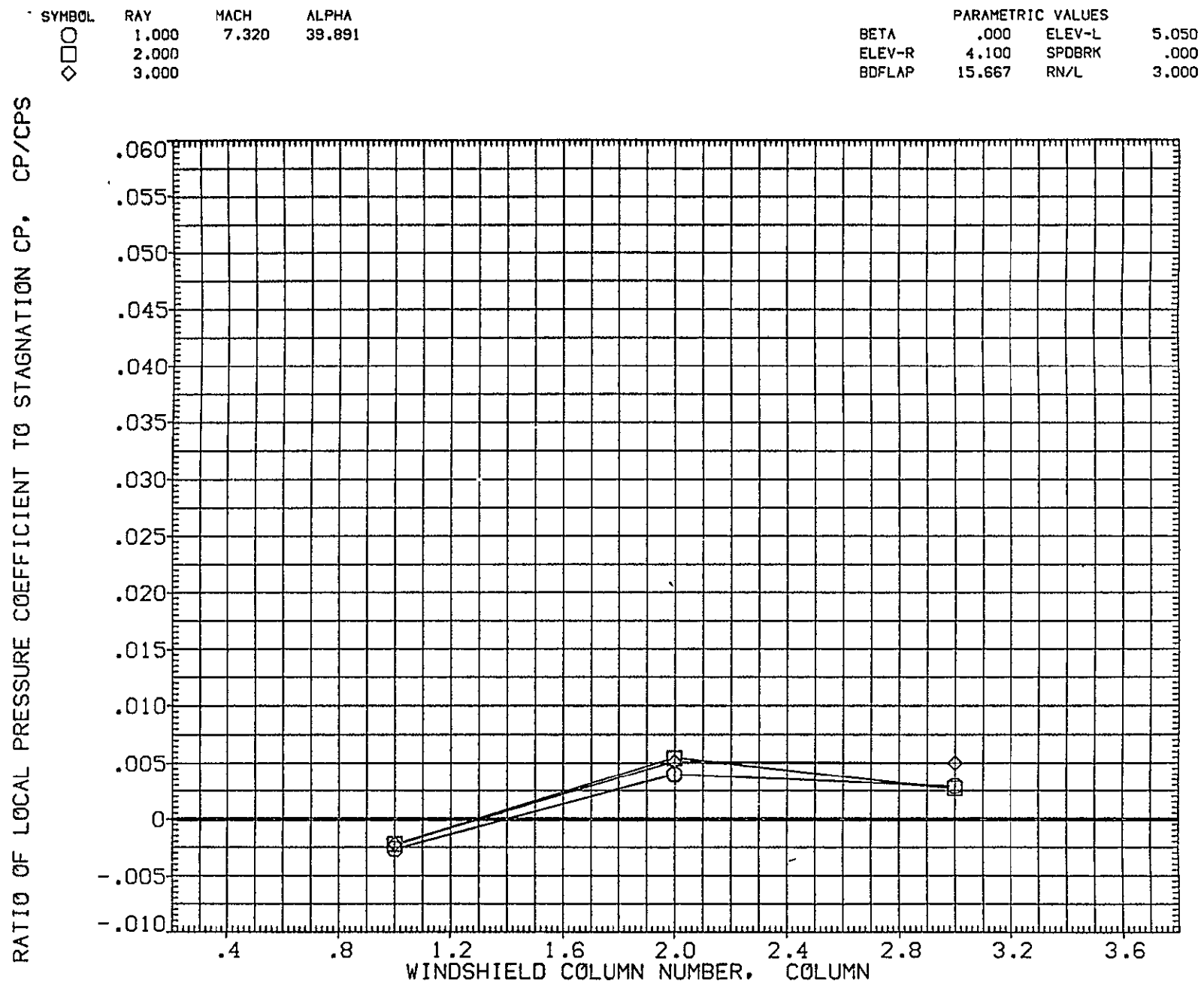


FIG. 11 WINDSHIELD



ARC 3.5-198 OH38 140C ORB WINDSHIELD

(PEZE07)

SYMBOL  
○  
□  
◇

RAY  
1.000  
2.000  
3.000

MACH  
7.320

ALPHA  
44.091

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

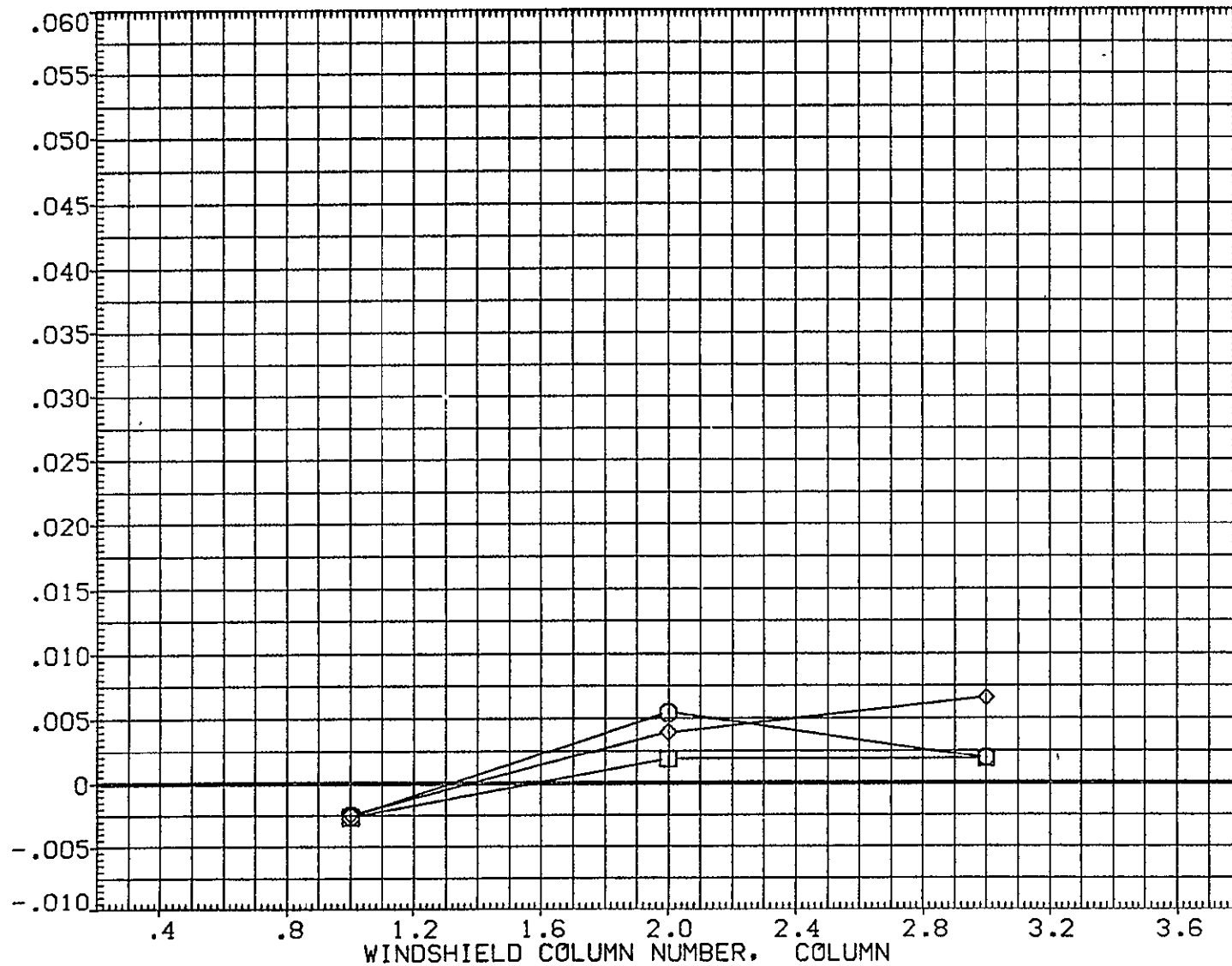


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	48.692
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

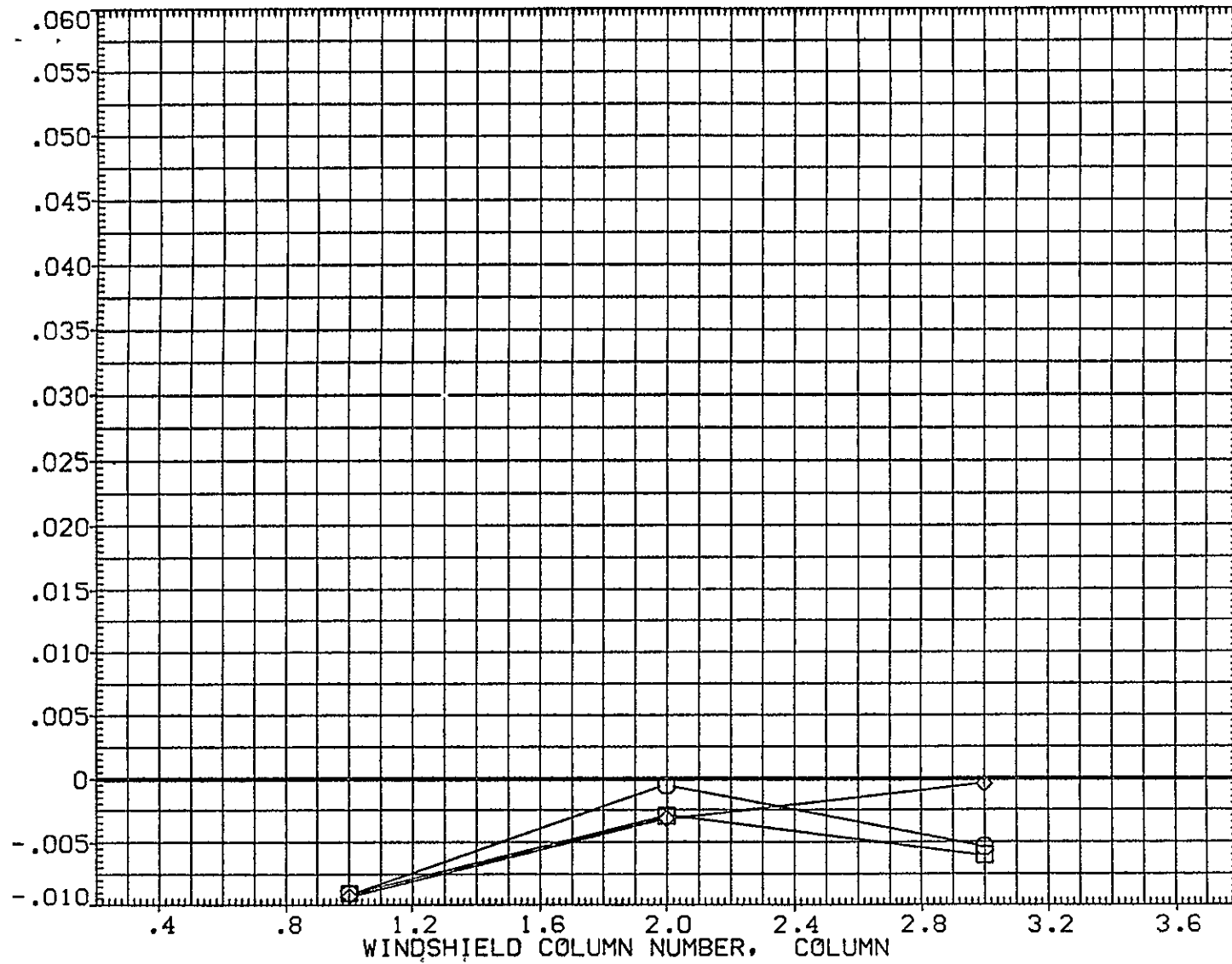


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(CEZE11)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	15.000
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP. CP/CPS

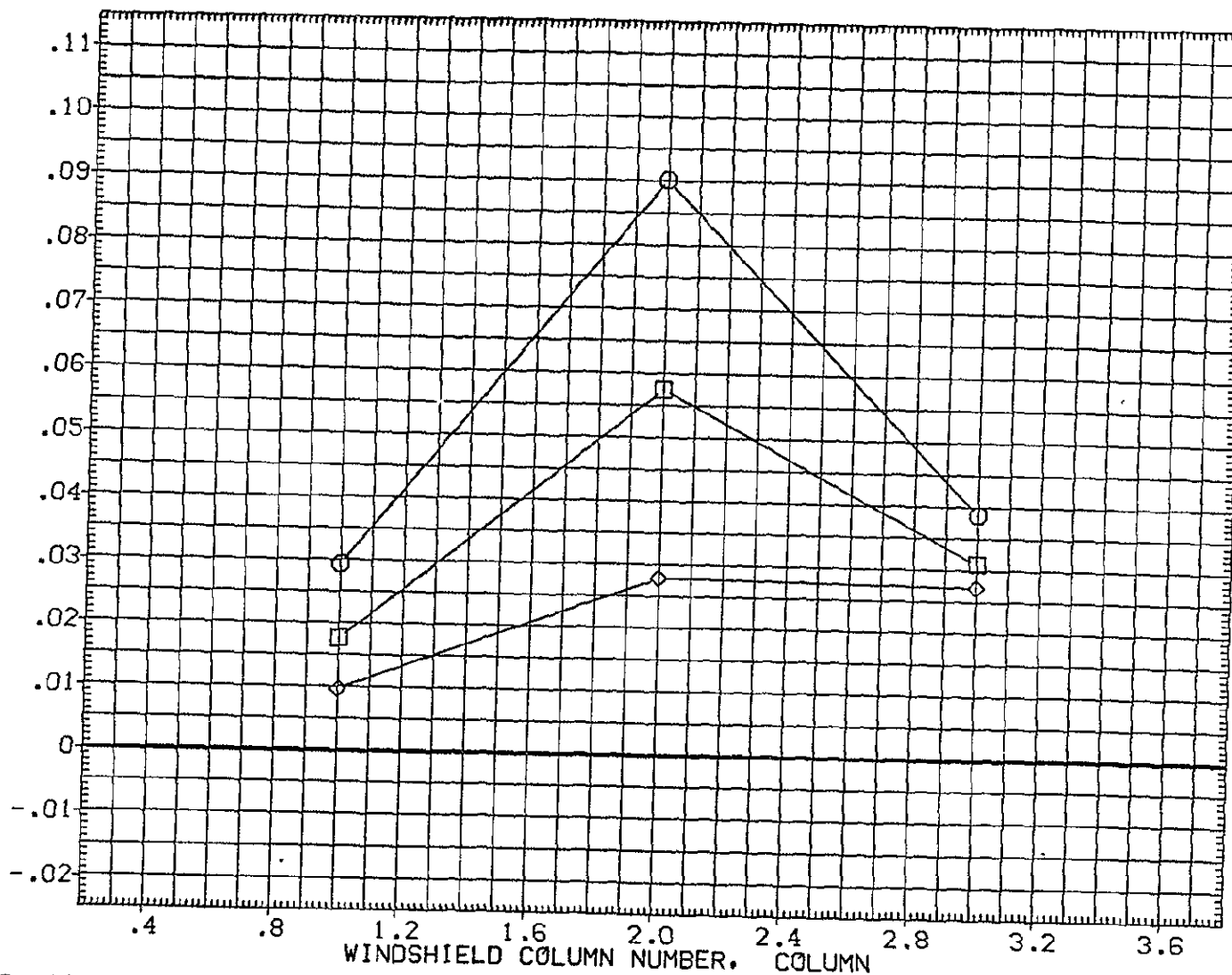


FIG. 11 WINDSHIELD

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	19.441
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

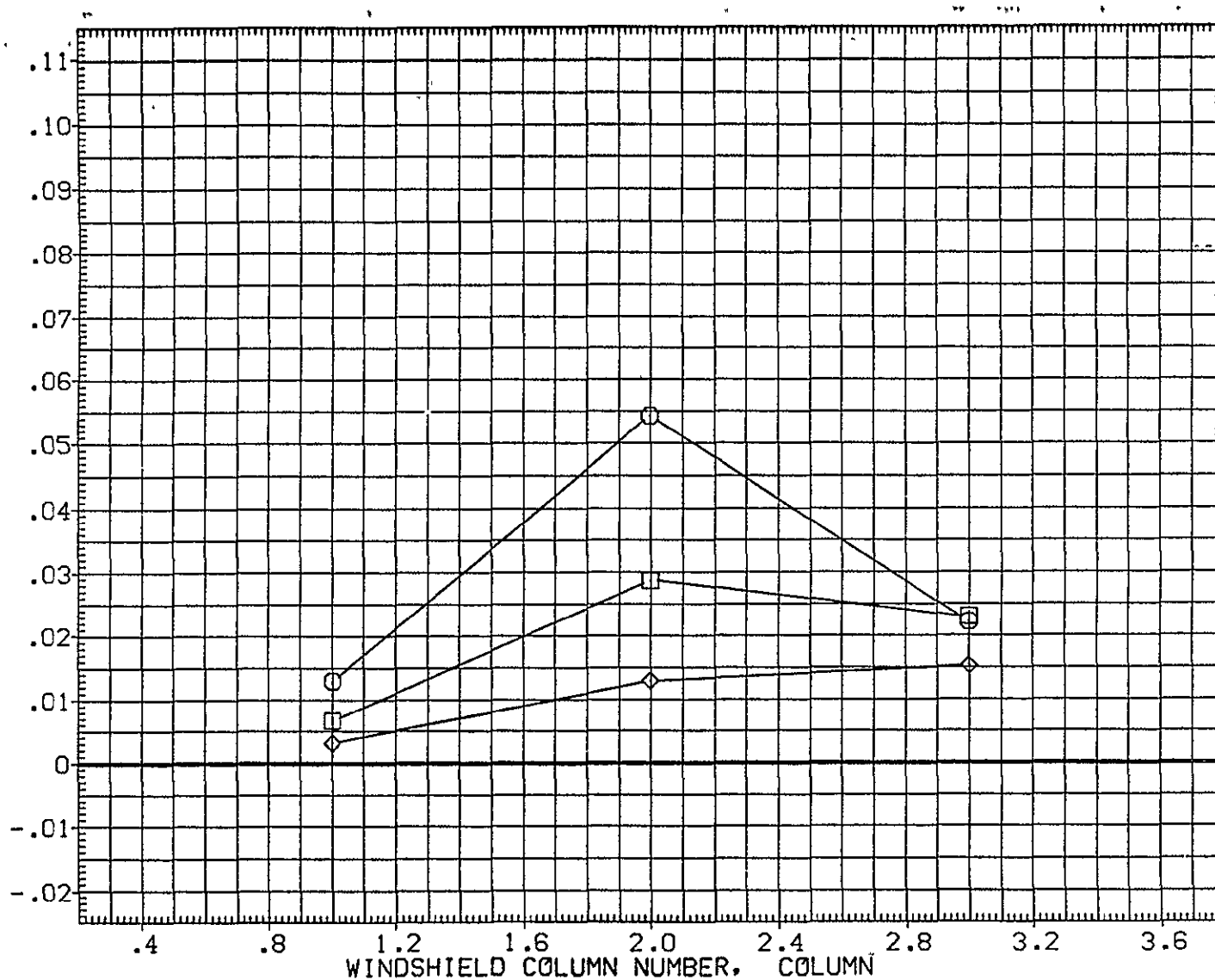


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	25.000
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

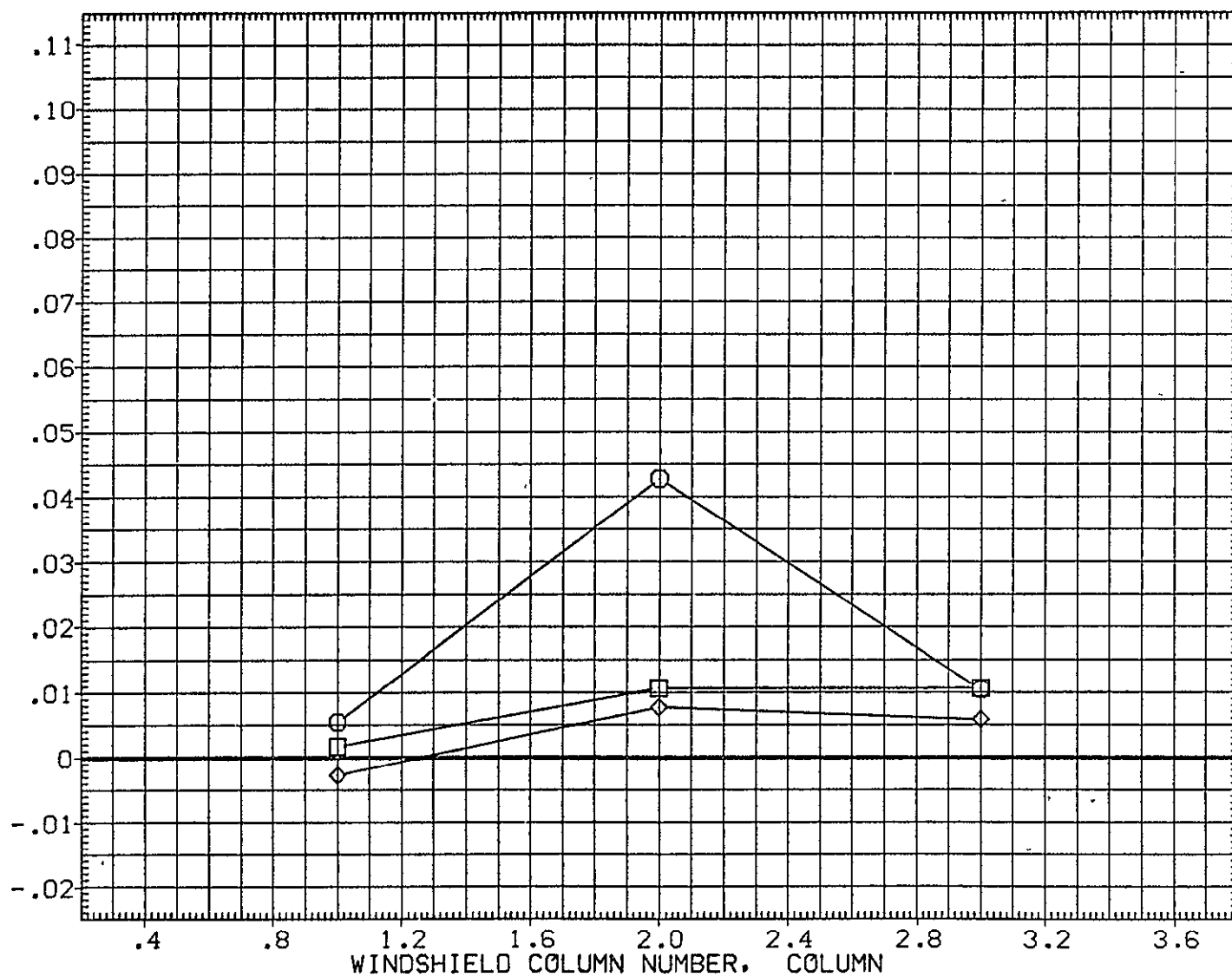


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	29.674
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

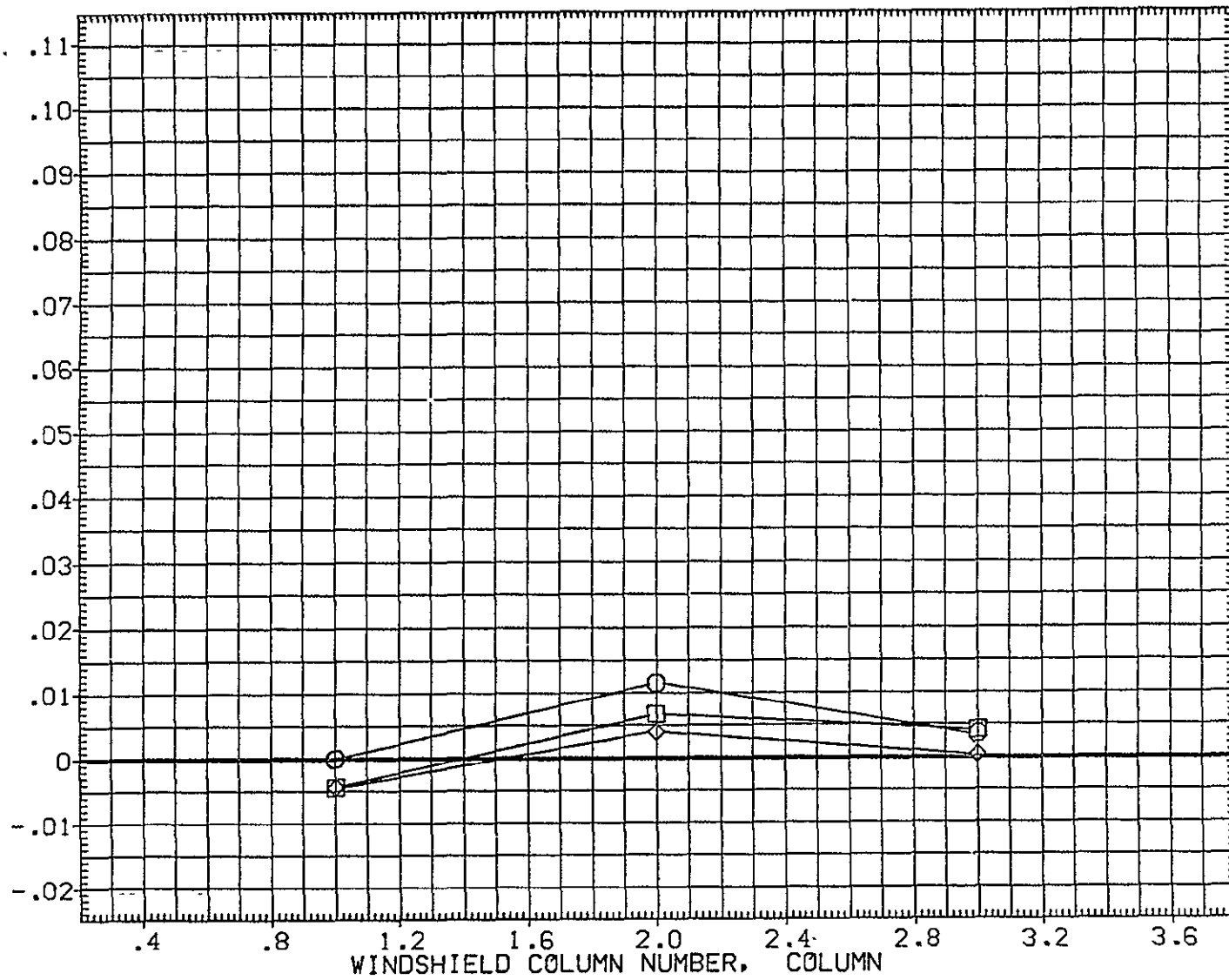


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(CEZE11)

SYMBOL  
○  
□  
◇

RAY  
1.000  
2.000  
3.000

MACH  
7.320

ALPHA  
34.627

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

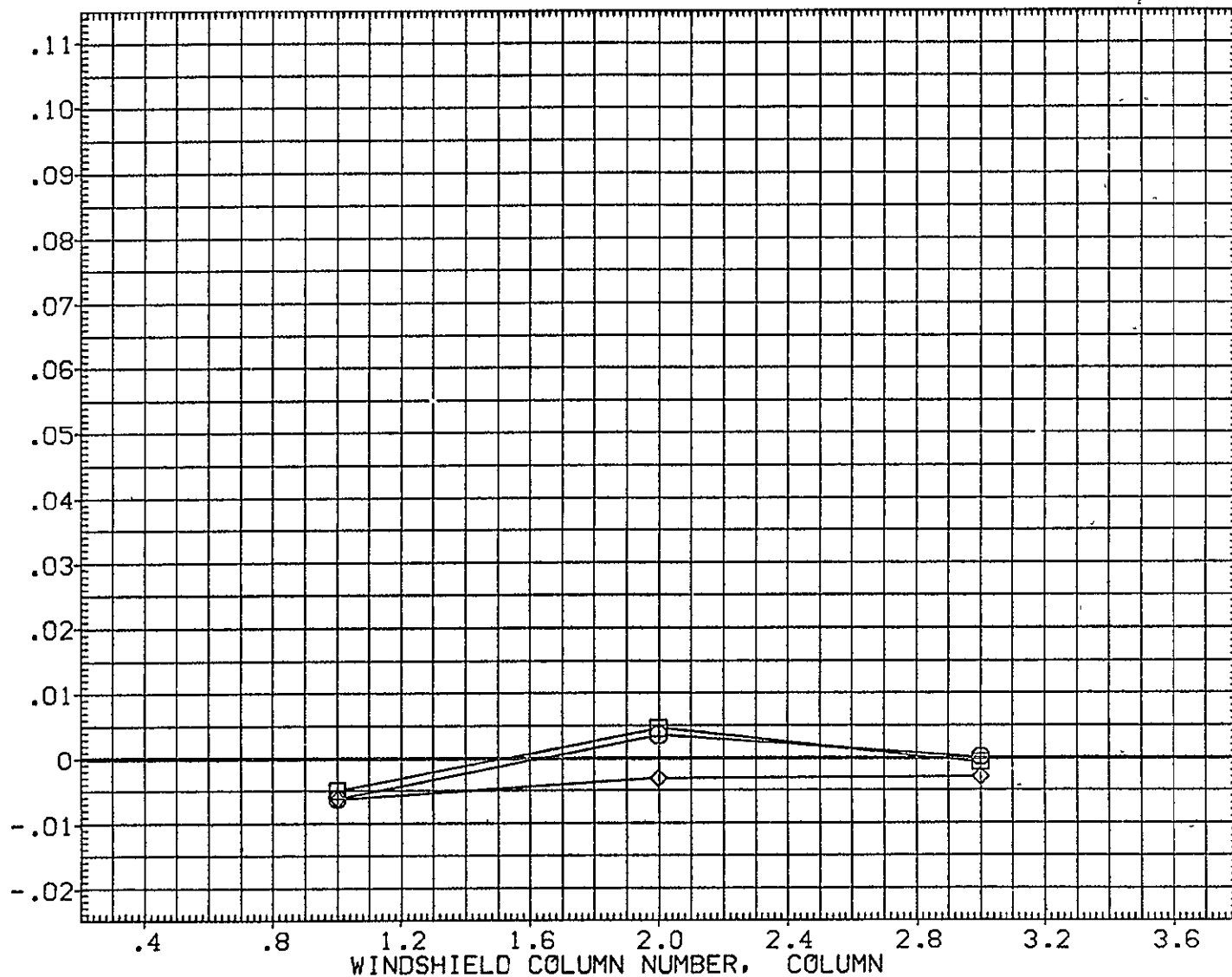


FIG. 11 WINDSHIELD

SYMBOL

RAY

MACH

ALPHA

PARAMETRIC VALUES

○  
□  
◇1.000  
2.000  
3.000

7.320

39.946

BETA

.000

ELEV-L

10.000

ELEV-R

9.100

SPDBRK

.000

BDFLAP

.000

RN/L

3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

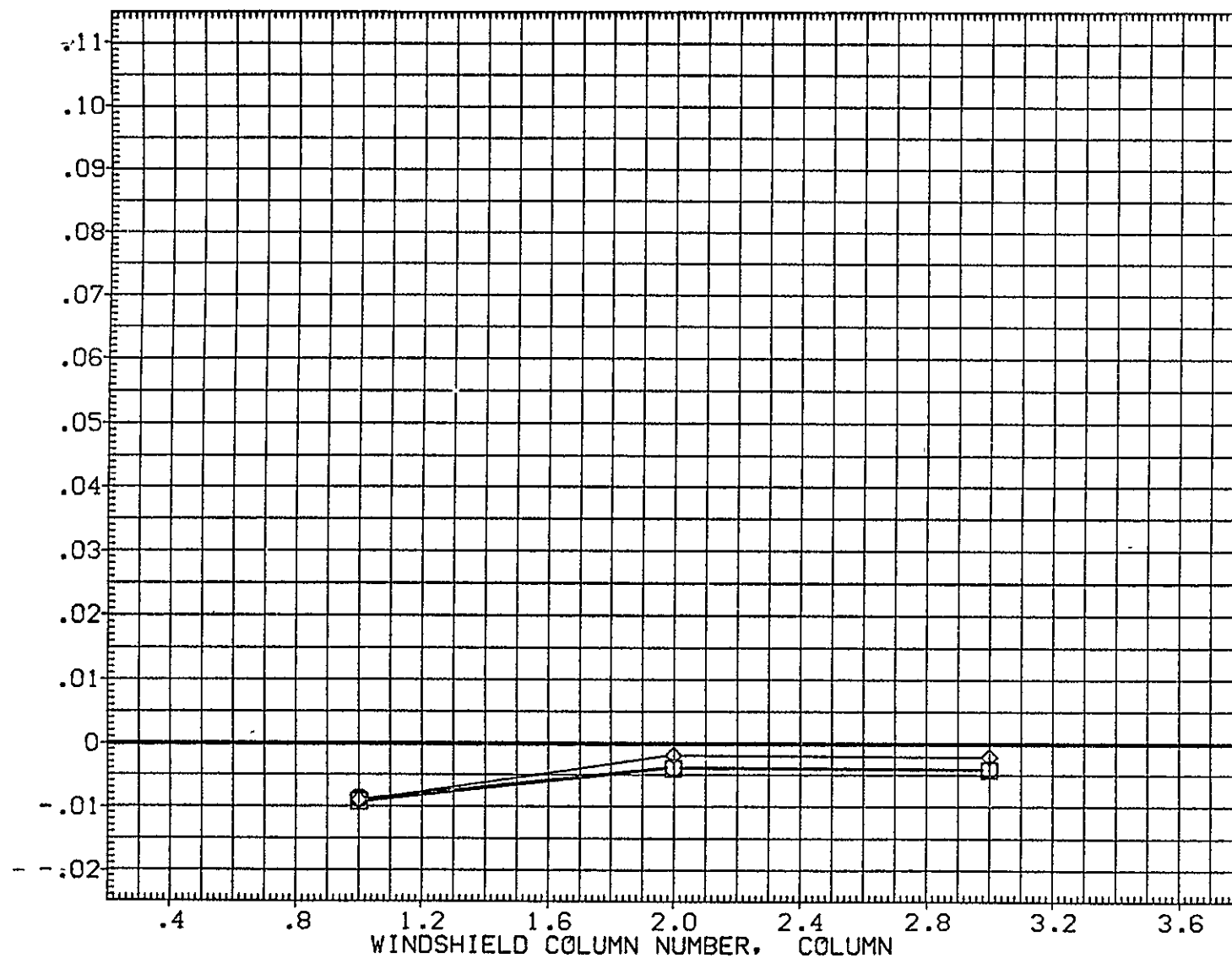


FIG. 11 WINDSHIELD



ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(CEZE11)

SYMBOL  
○  
□  
◇

RAY  
1.000  
2.000  
3.000

MACH  
7.320

ALPHA  
44.091

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPOBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

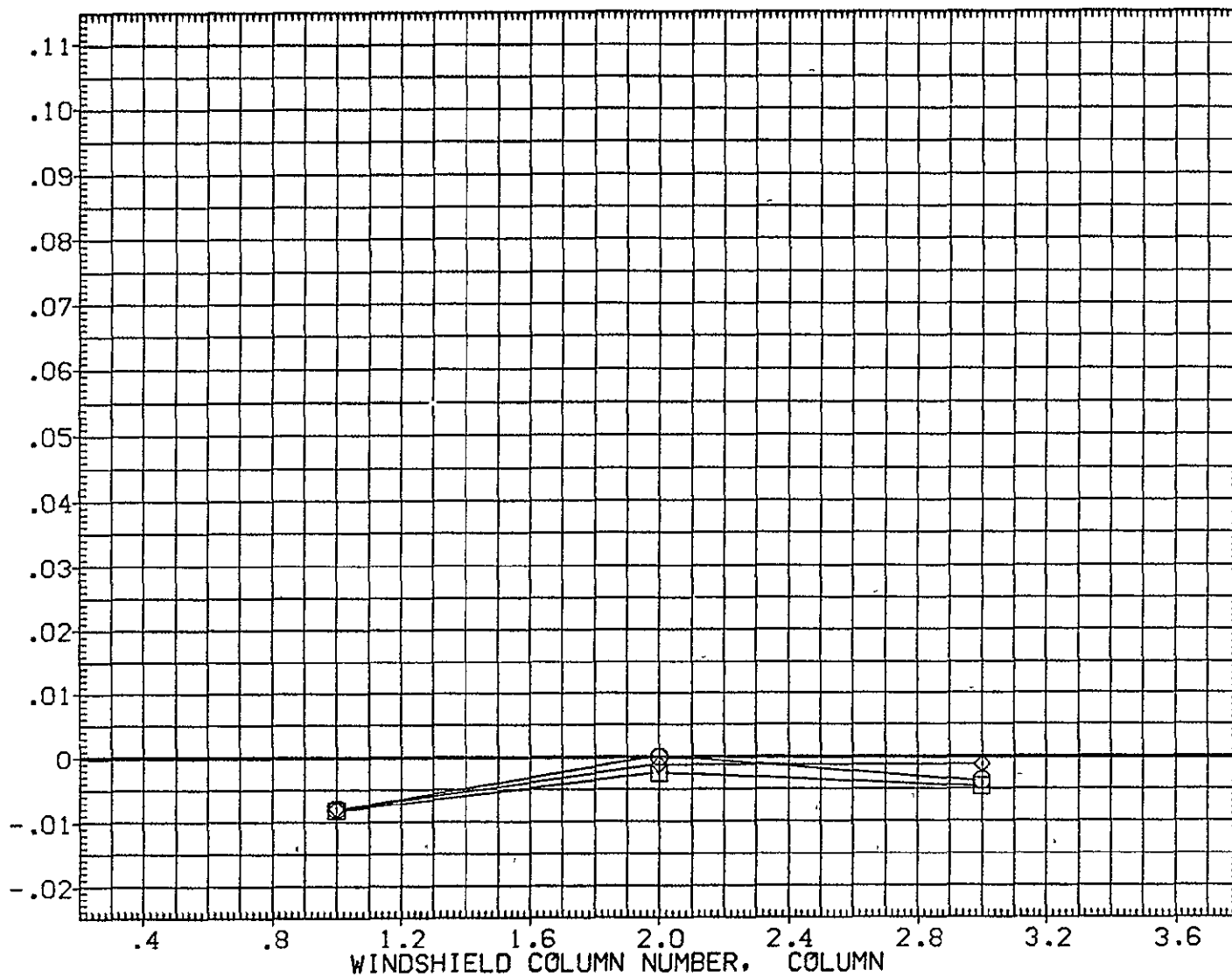


FIG. 11 WINDSHIELD

SYMBOL  
○  
□  
◇

RAY	MACH	ALPHA
1.000	7.320	48.676
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

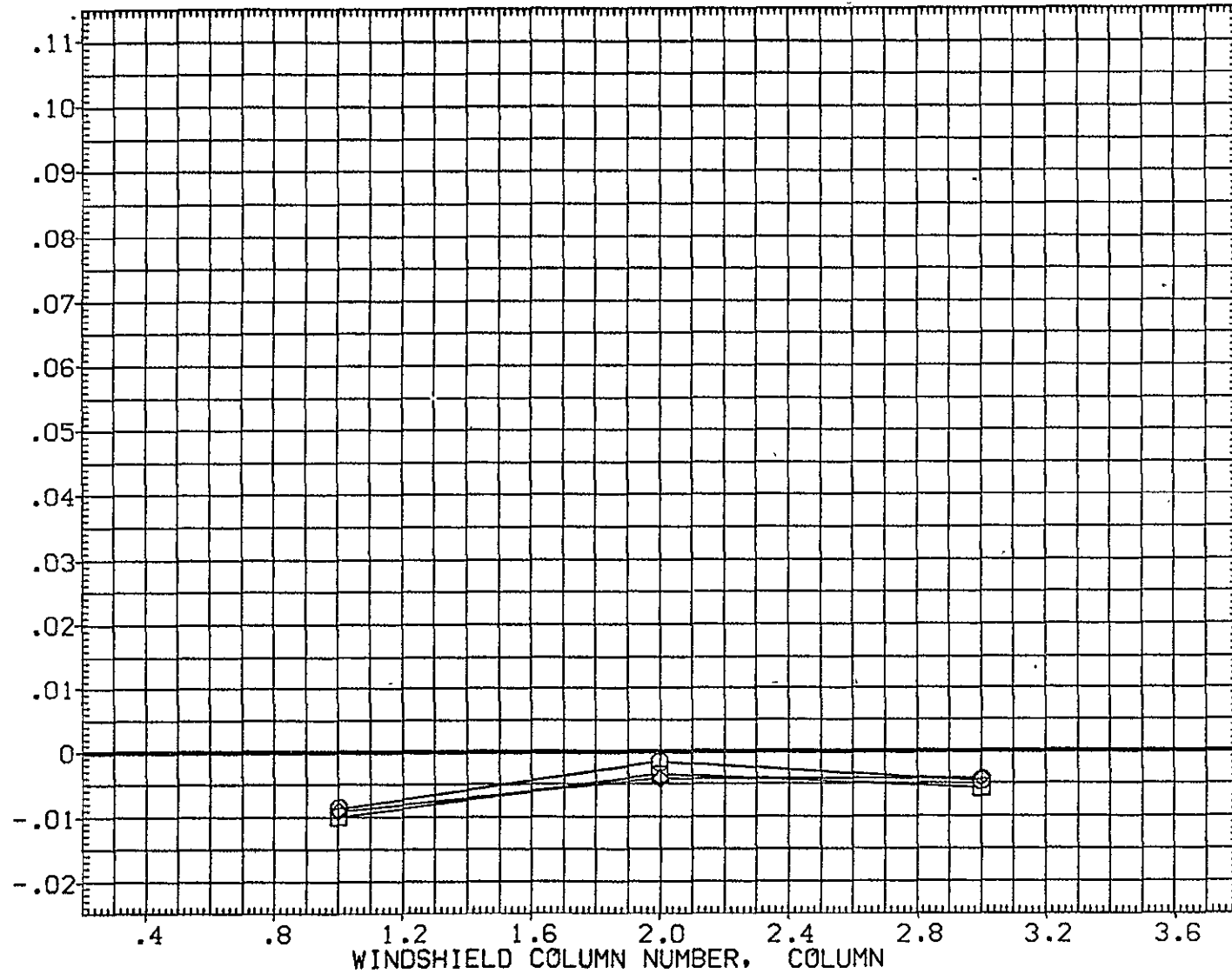


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE14)

SYMBOL  
○  
□  
◇

RAY  
1.000  
2.000  
3.000

MACH  
7.320

ALPHA  
15.000

PARAMETRIC VALUES

BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

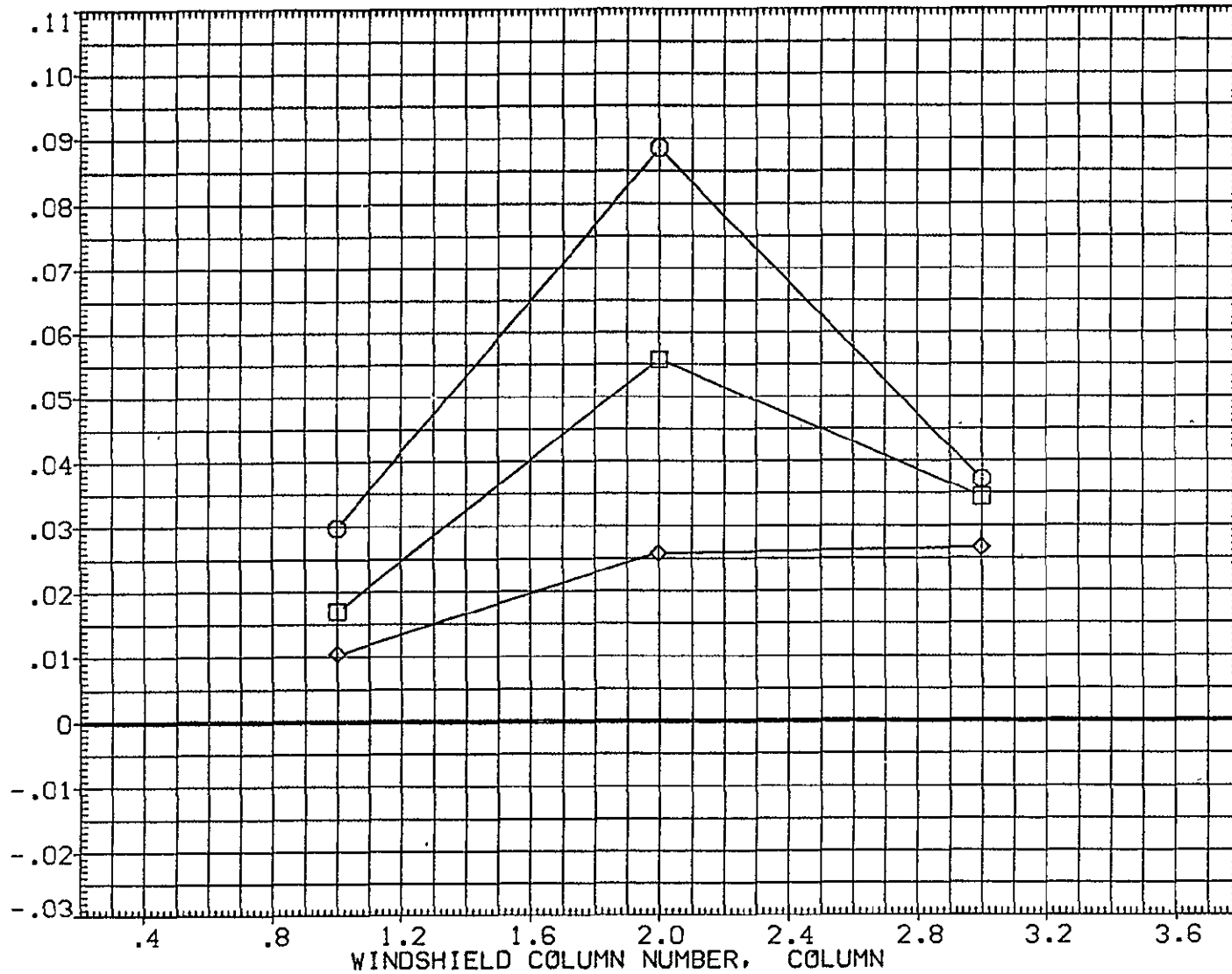


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	19.534
□	2.000		
◇	3.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-L -40.117
ELEV-R	-39.717	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

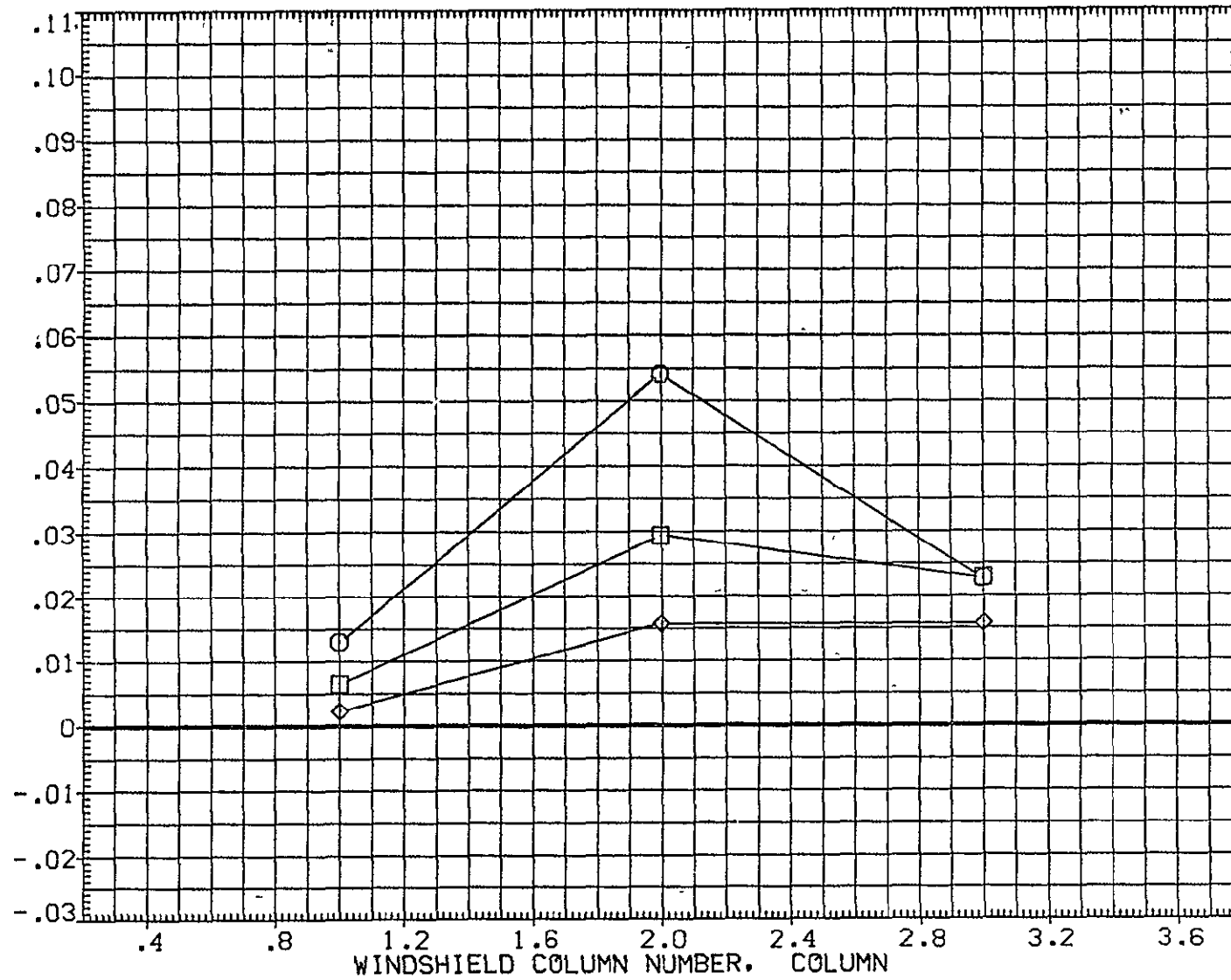


FIG. 11 WINDSHIELD

ARC 3.5-198 OH38 140C ORB WINDSHIELD

(PEZE14)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	24.445
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

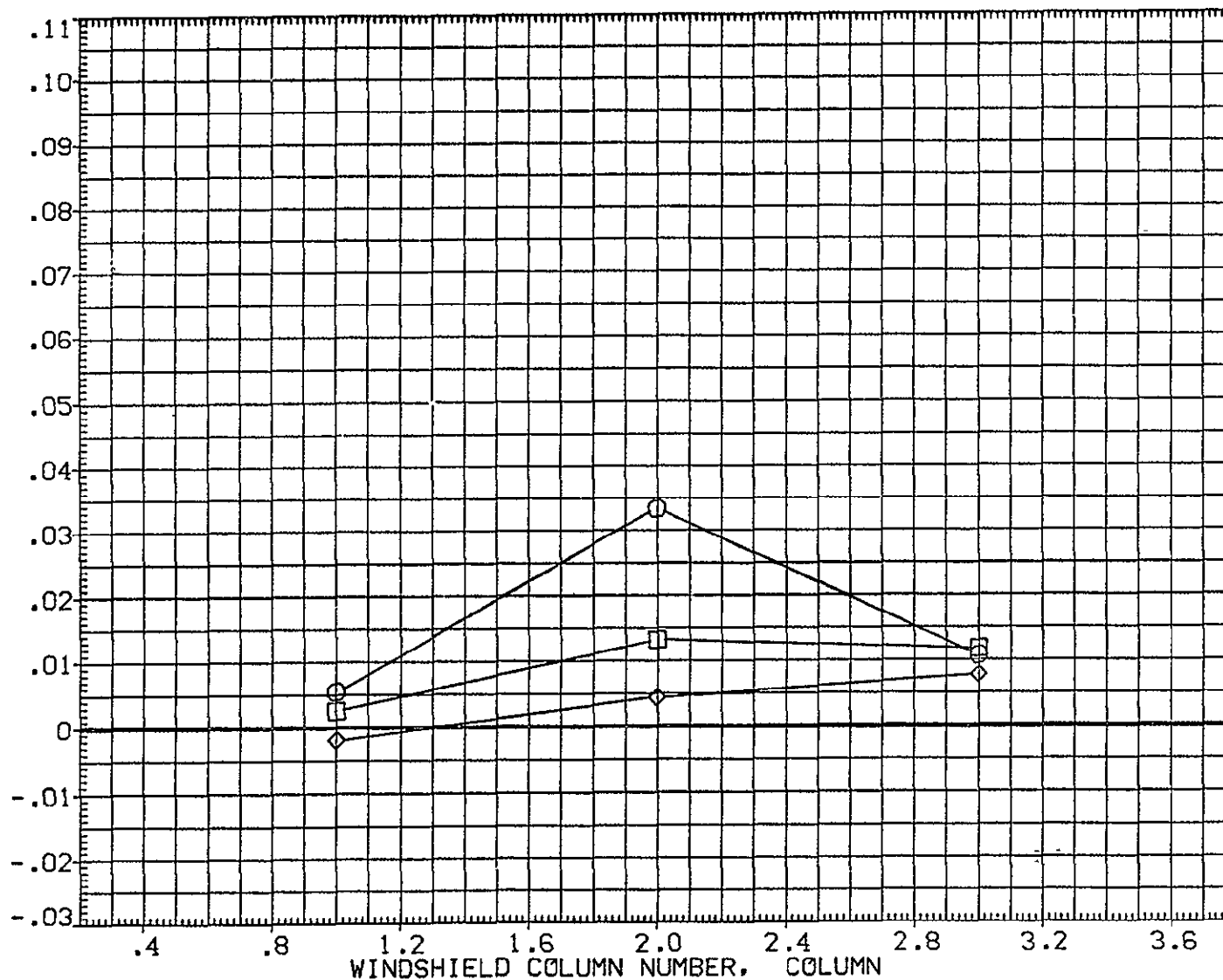


FIG. 11 WINDSHIELD

SYMBOL  
◇ □ ○

RAY	MACH	ALPHA
1.000	7.320	29.707
2.000		
3.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-L -40.117
ELEV-R	-39.717	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

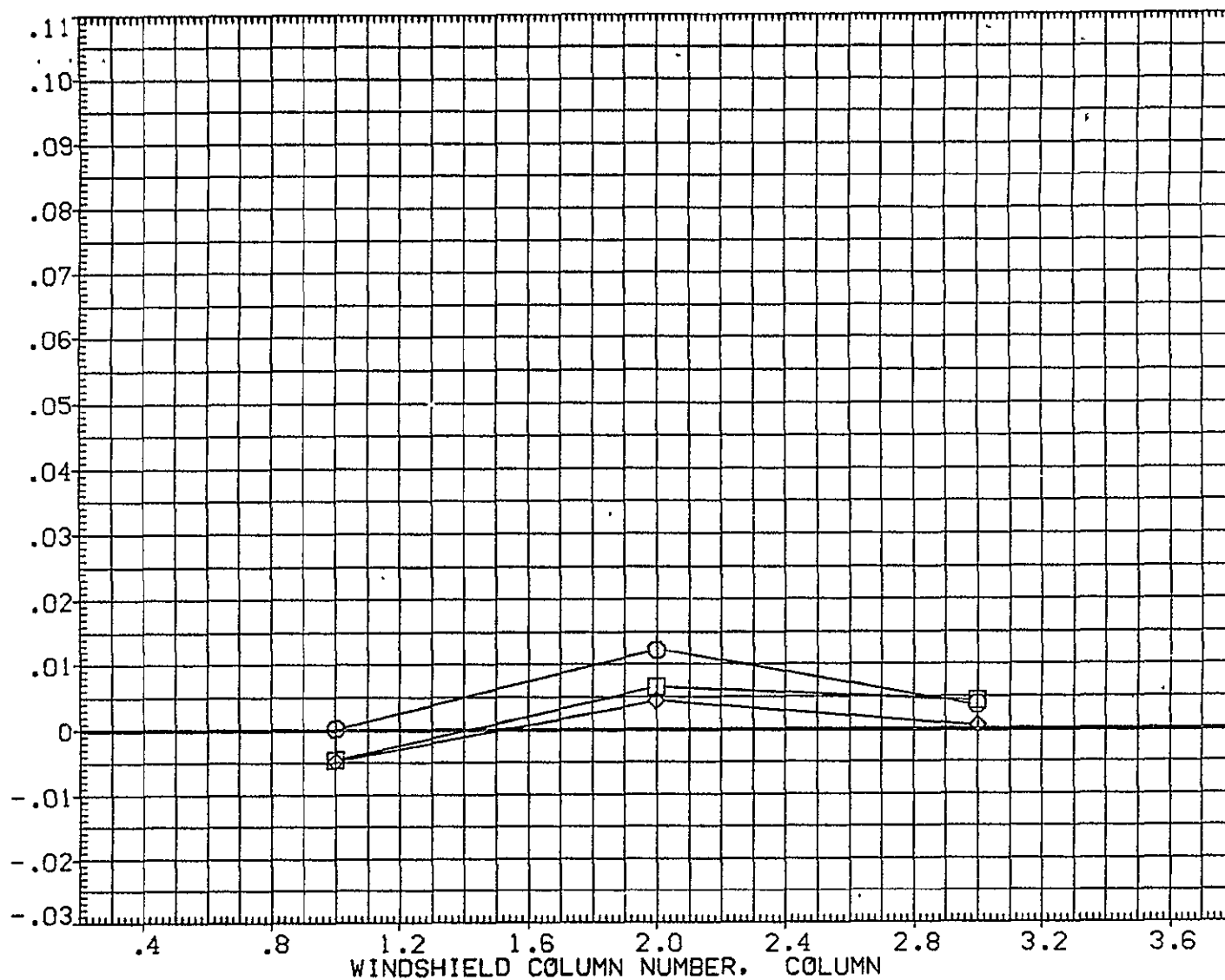


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE14)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	34.863
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

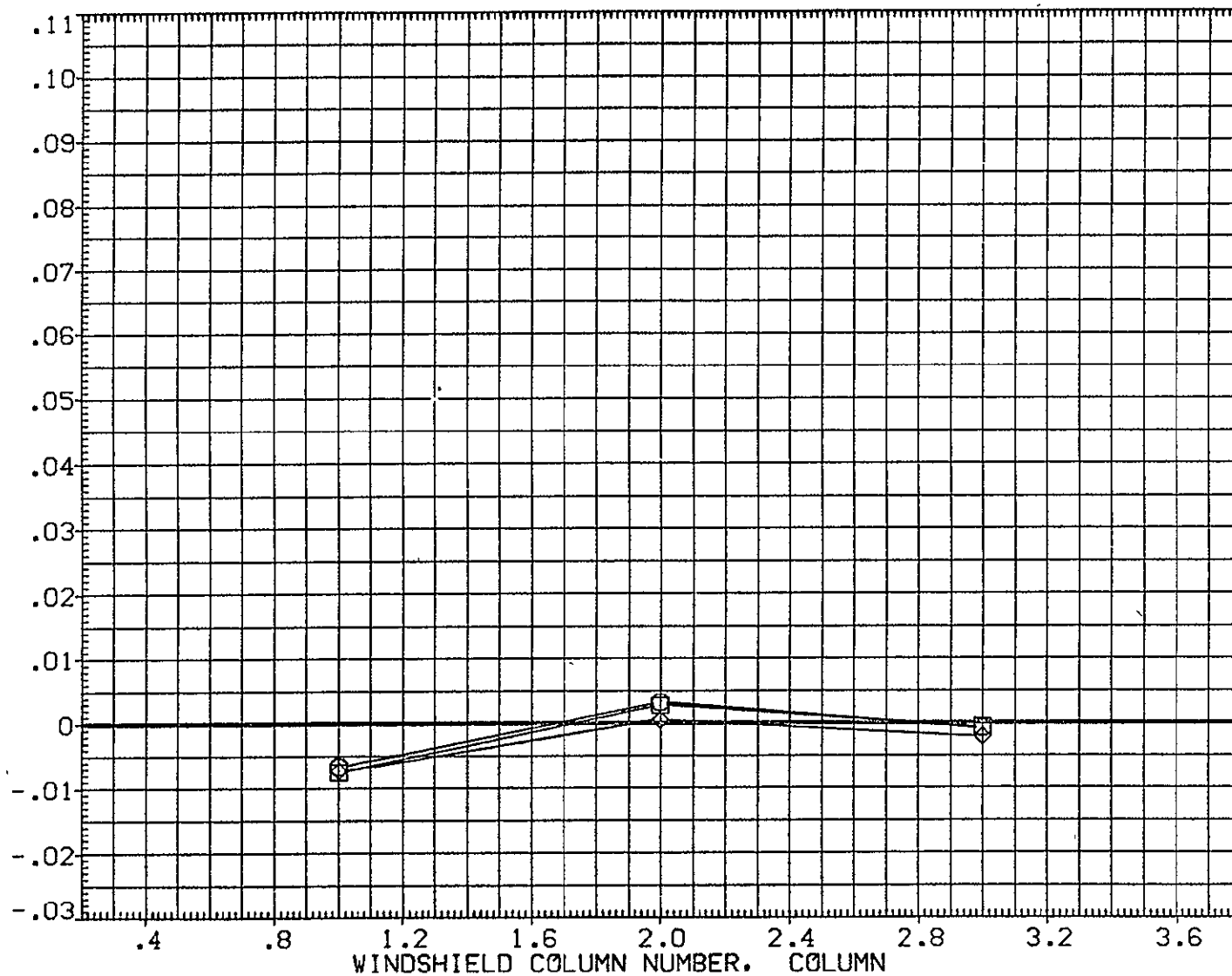


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
◇	1.000	7.320	39.964
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

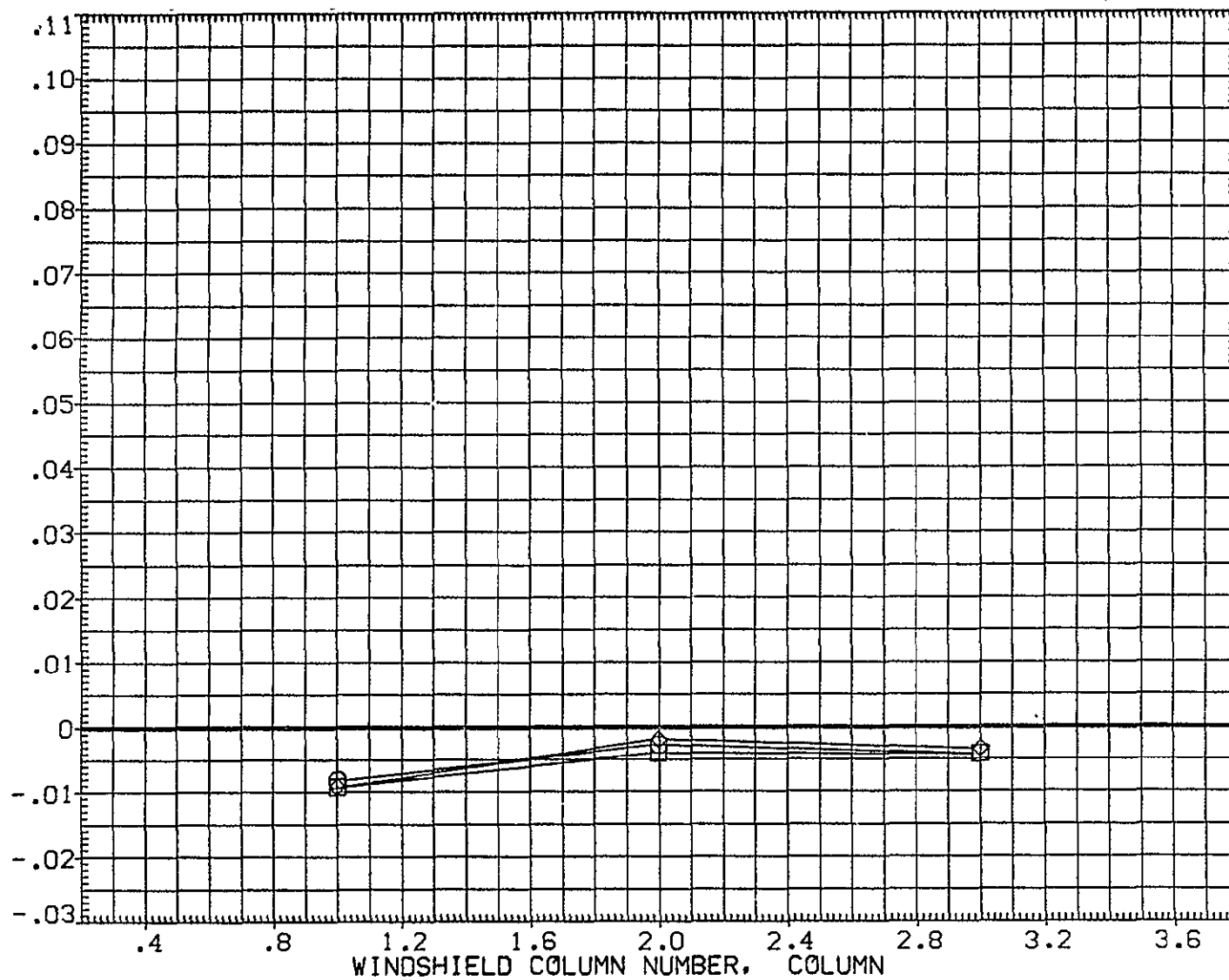


FIG. 11 WINDSHIELD



SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	44.152
□	2.000		
◇	3.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-L -40.117
ELEV-R	-39.717	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

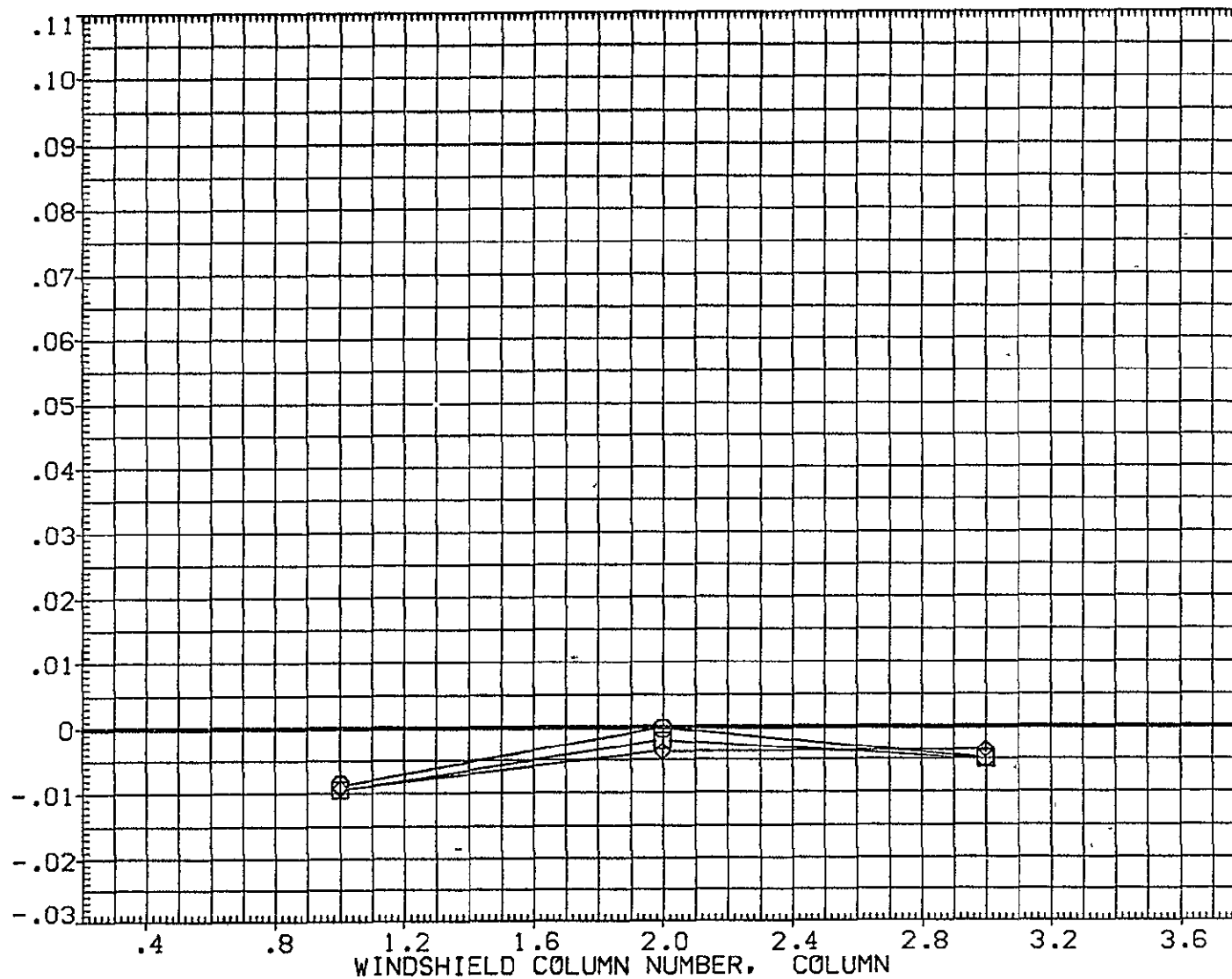


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
◇	1.000	7.320	50.000
□	2.000		
○	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

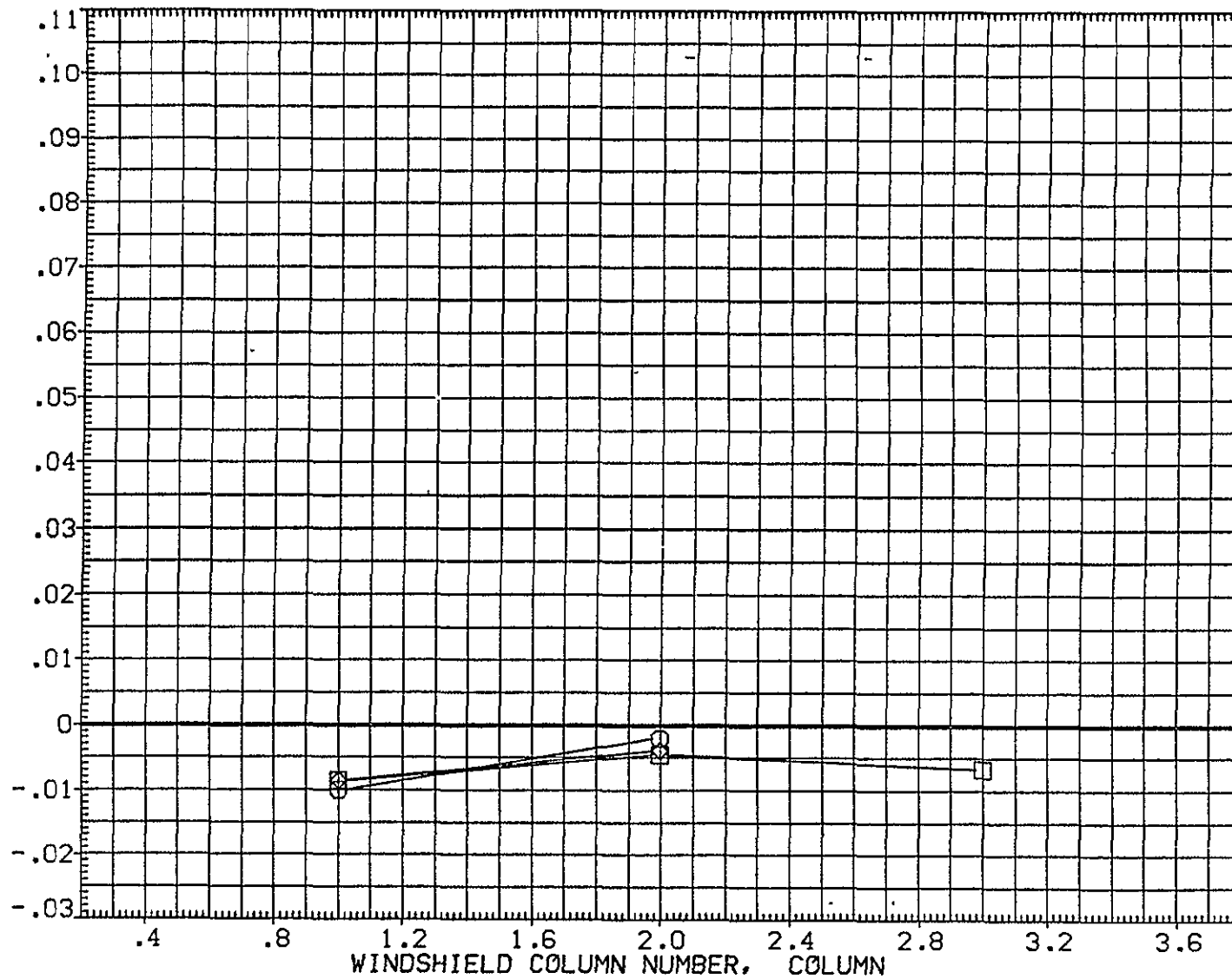


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE16)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	19.582
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

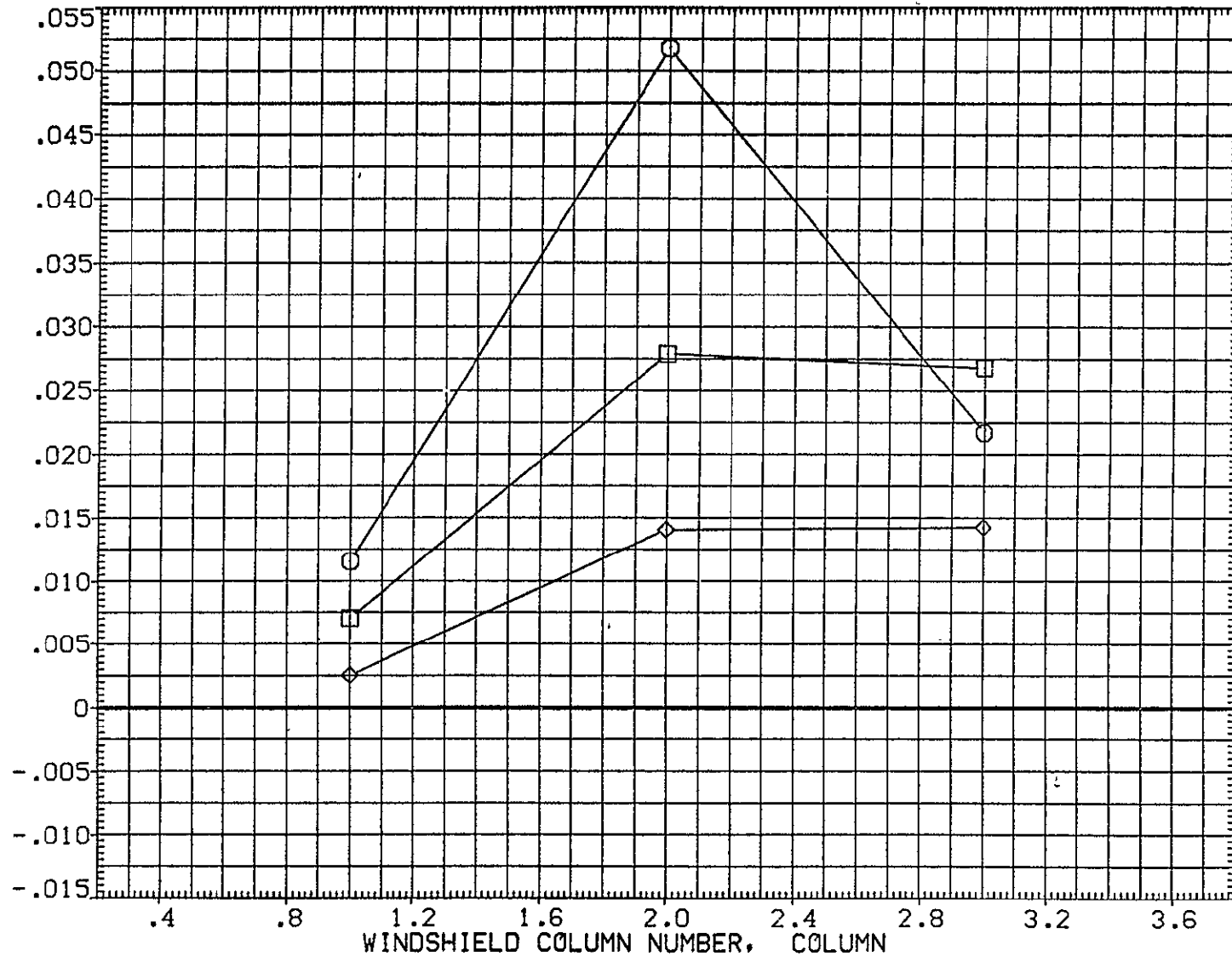


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	24.797
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BCFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP. CP/CPS

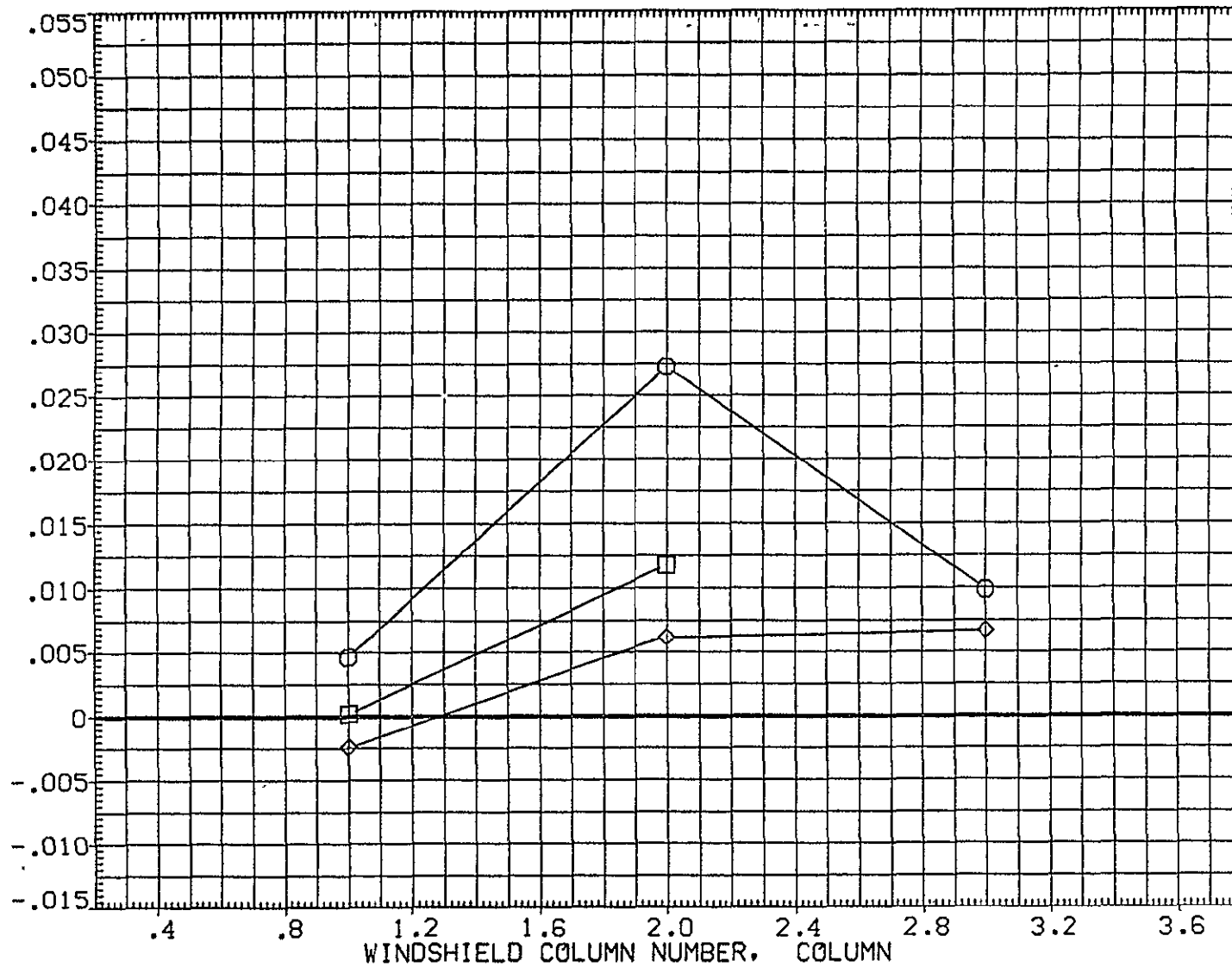


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE16)

SYMBOL	RAY	MACH	ALPHA
○	1.000	7.320	29.720
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

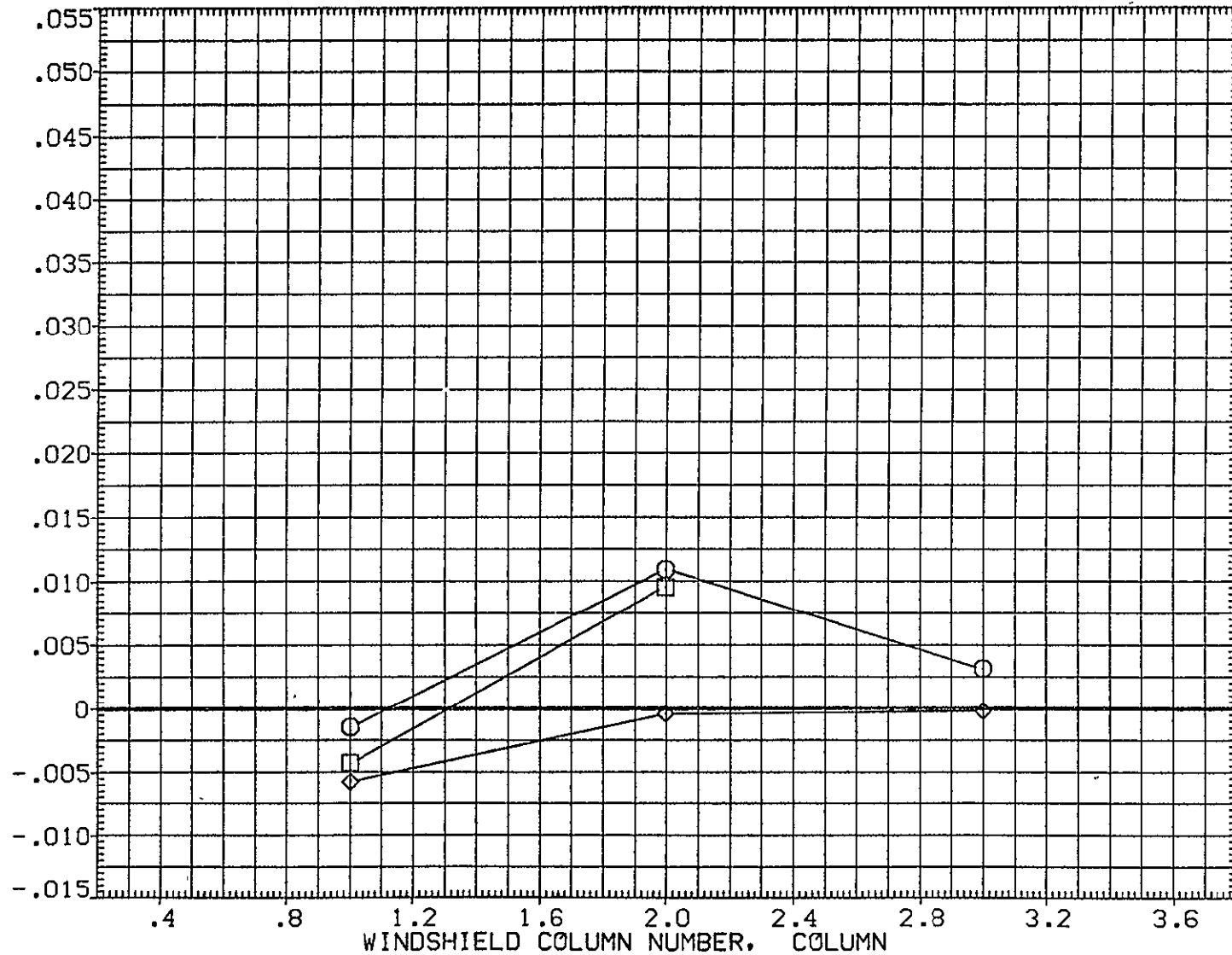


FIG. 11 WINDSHIELD

SYMBOL

○  
□  
◇

RAY

1.000  
2.000  
3.000

MACH

7.320

ALPHA

34.753

PARAMETRIC VALUES

BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

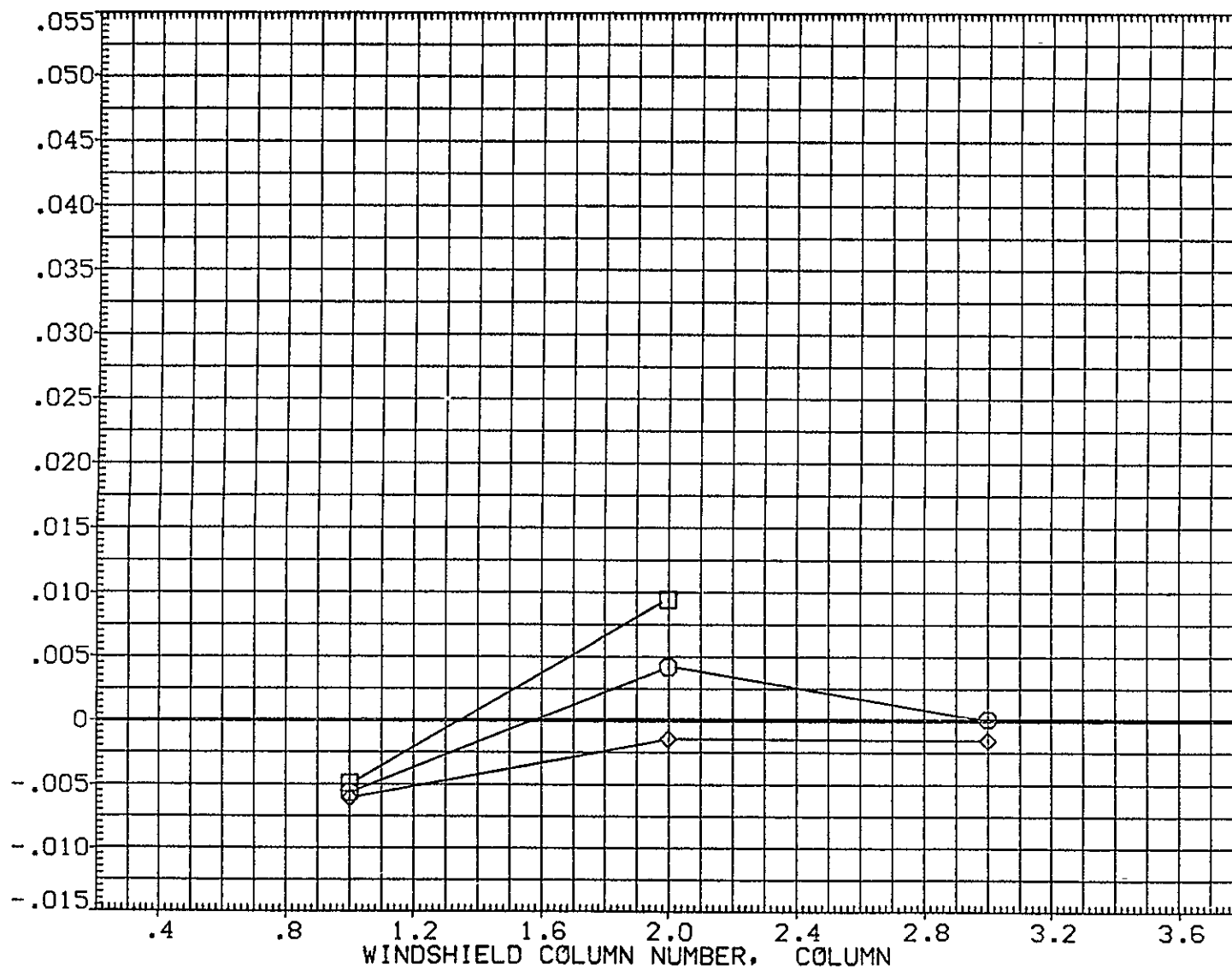


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
◇	1.000	7.320	48.717
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

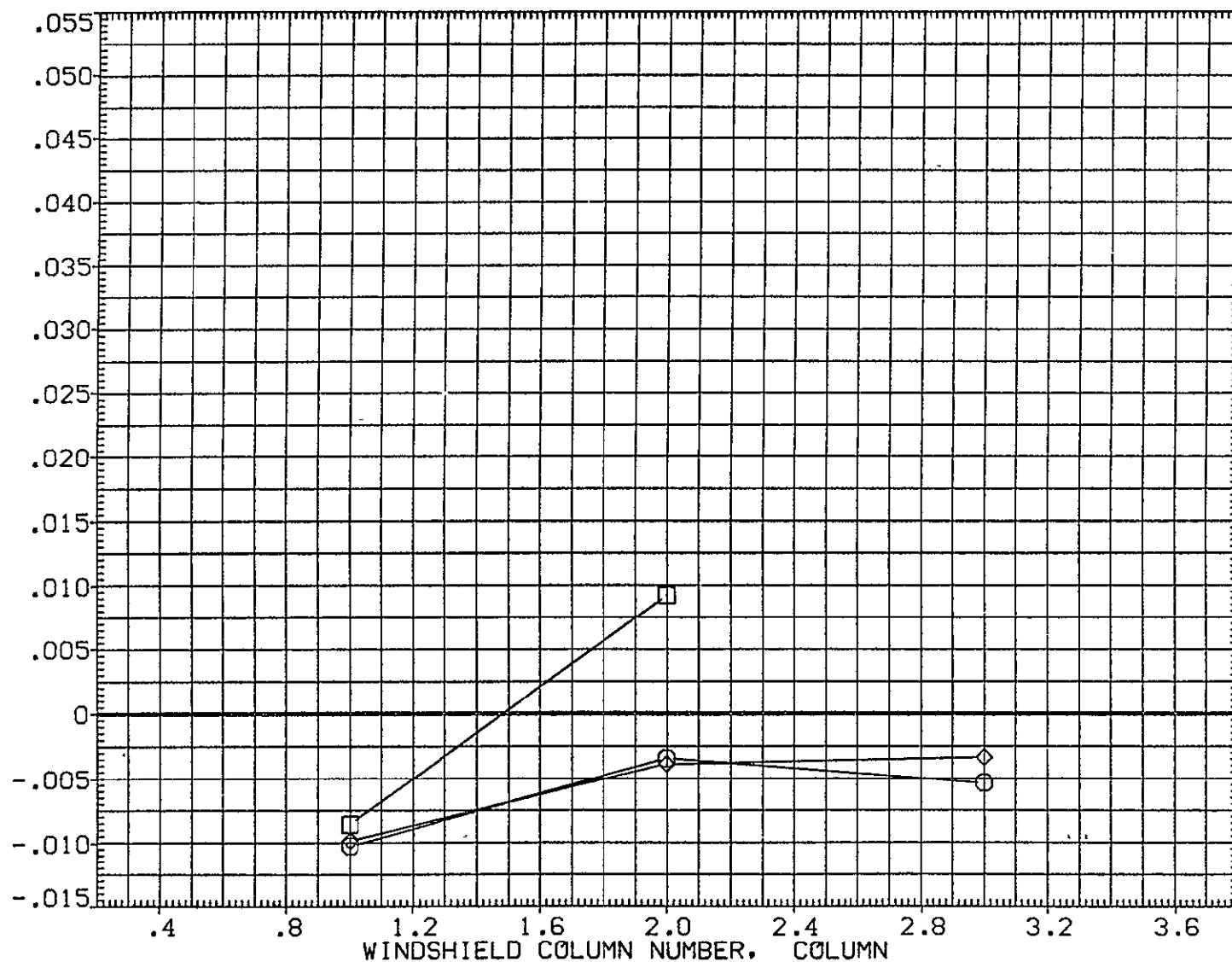


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	10.290	19.744
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

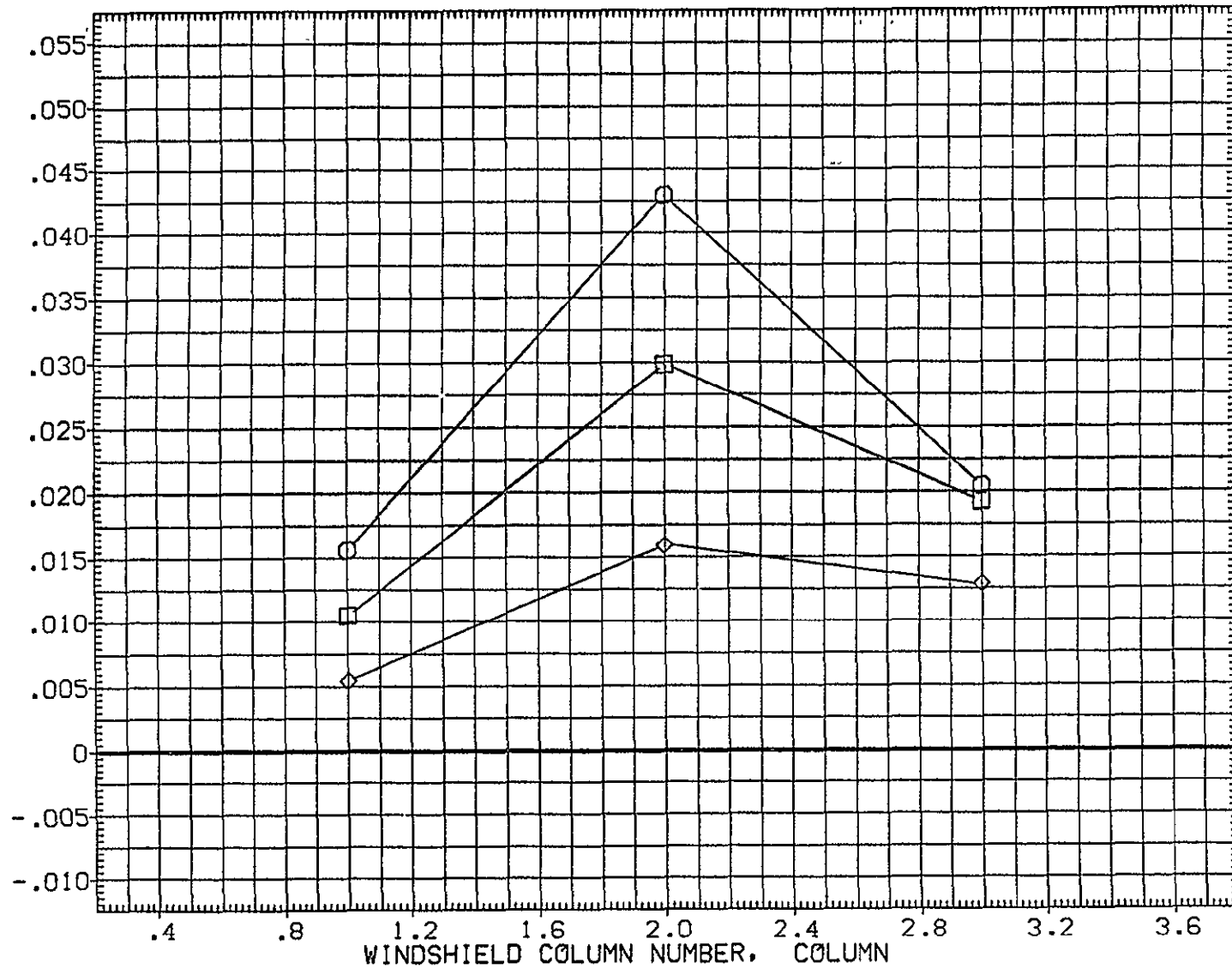


FIG. 11 WINDSHIELD



SYMBOL	RAY	MACH	ALPHA
○	1.000	10.290	24.851
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

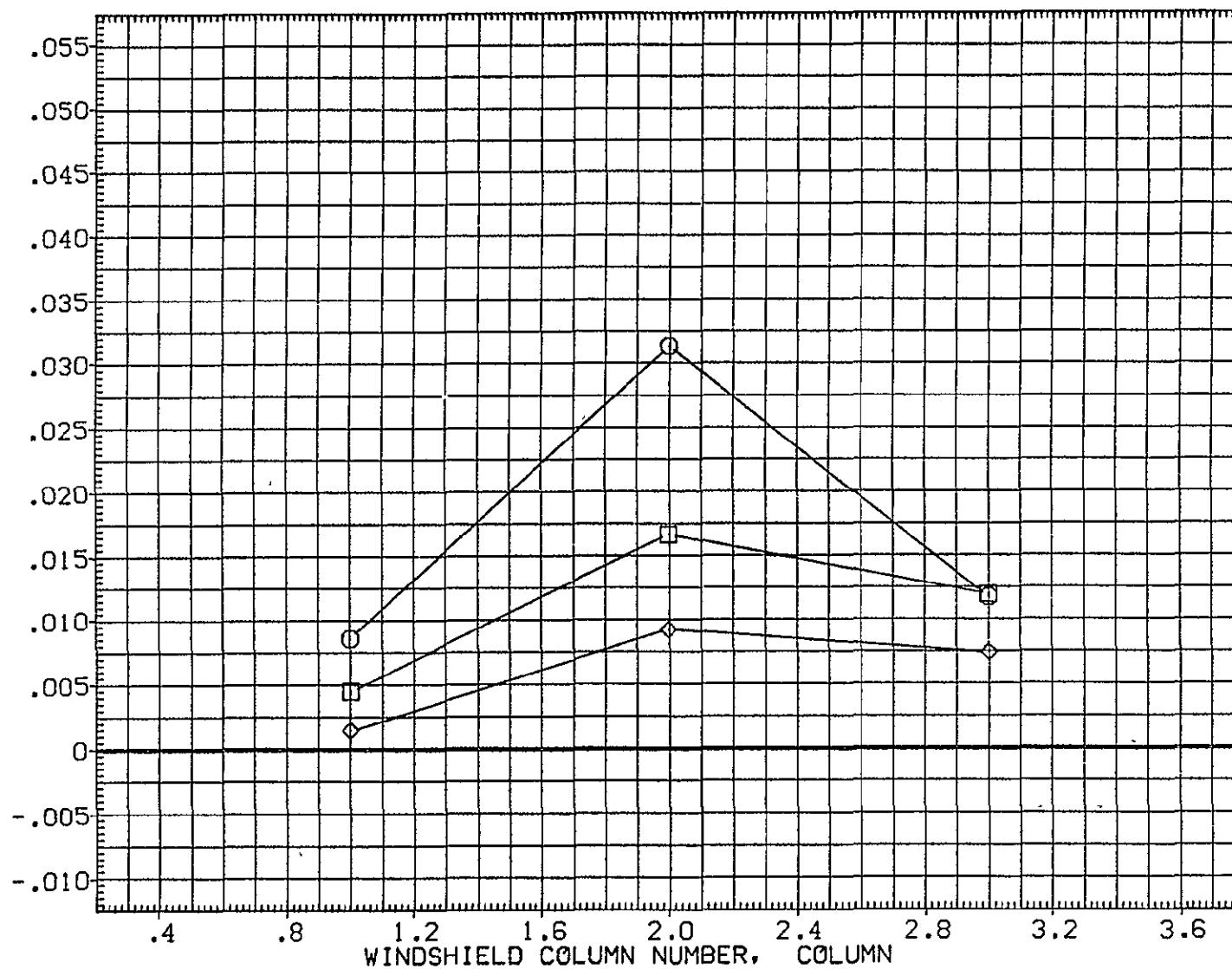


FIG. 11 WINDSHIELD

SYMBOL  
◇ □ ○

RAY	MACH	ALPHA
1.000	10.290	29.725
2.000		
3.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-L .117
ELEV-R	.000	SPDBRK .000
BDFLAP	.000	RN/L 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

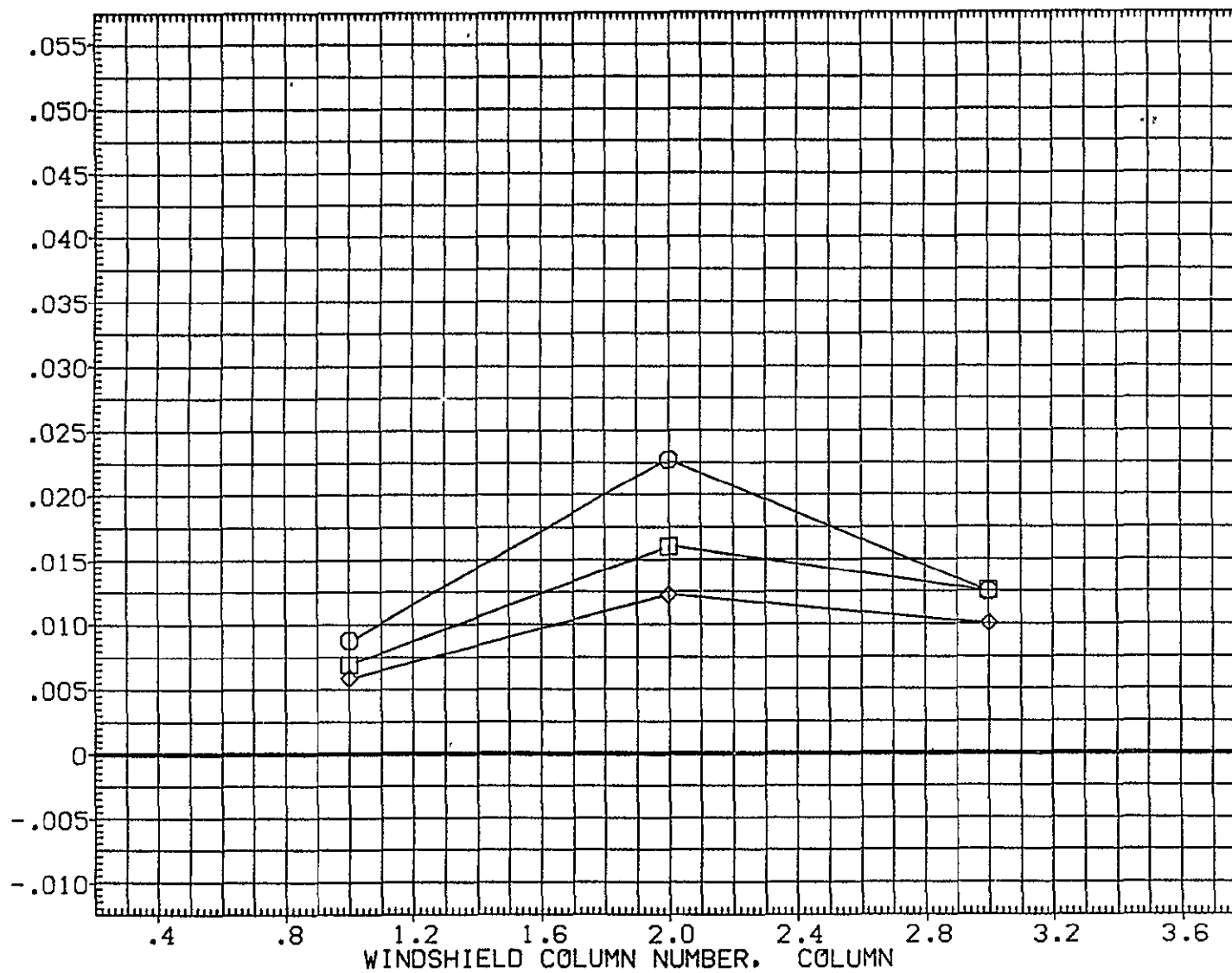


FIG. 11 WINDSHIELD

ARC 3.5-198 0H38 140C 0RB WINDSHIELD

(PEZE20)

SYMBOL  
 ○  
 □  
 ◇

RAY	MACH	ALPHA
1.000	10.290	34.881
2.000		
3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
90FLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

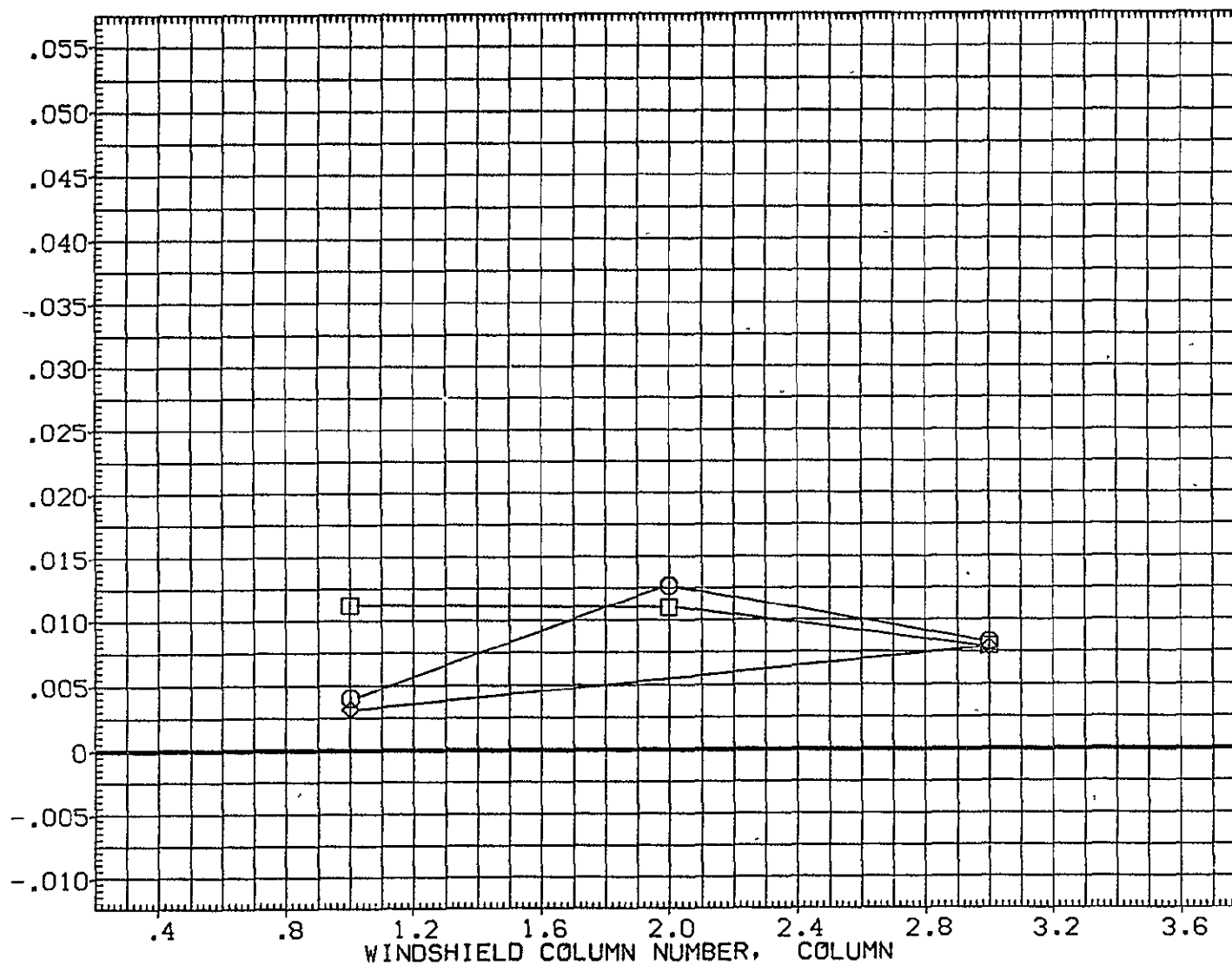


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	10.290	39.932
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

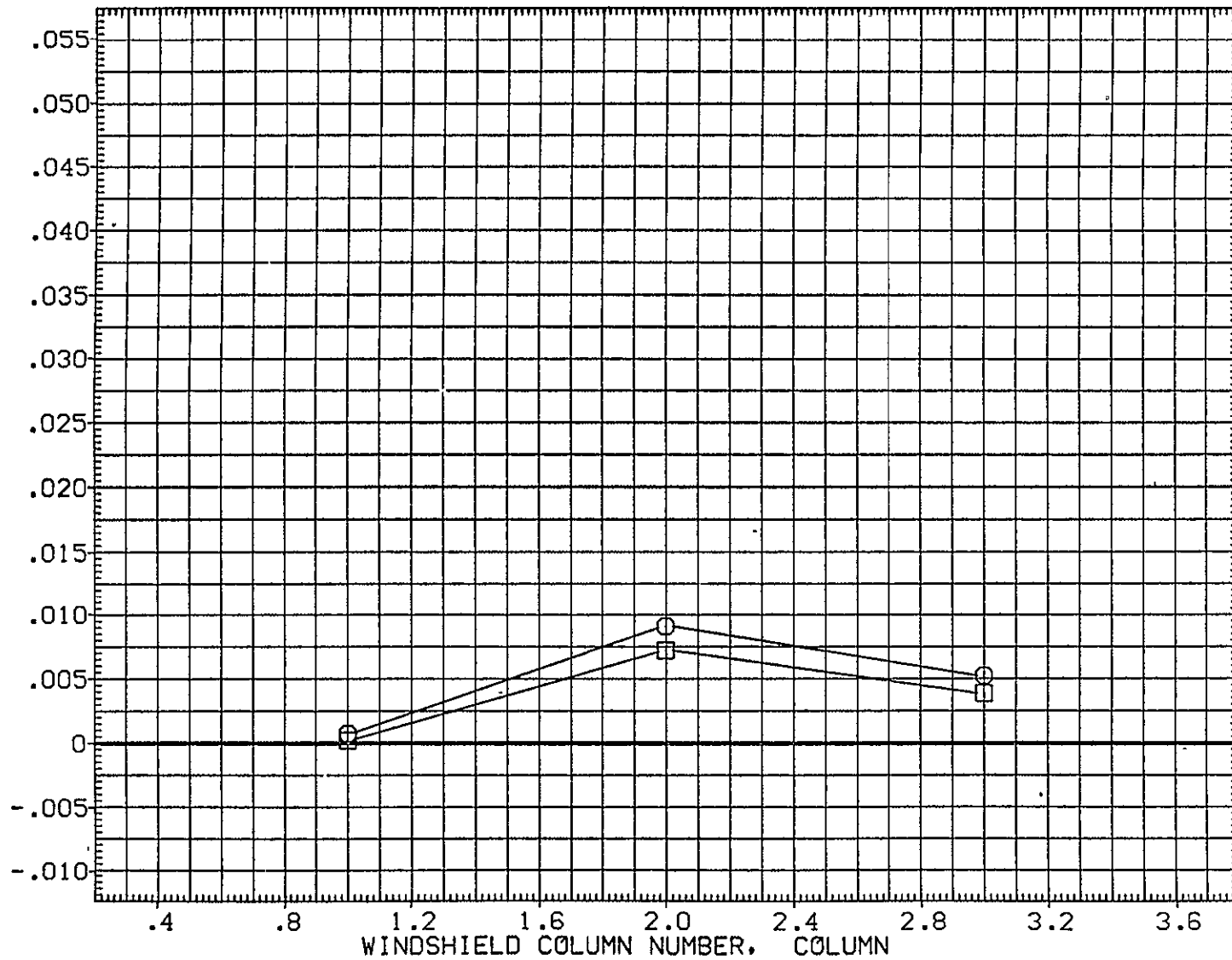


FIG. 11 WINDSHIELD

SYMBOL	RAY	MACH	ALPHA
○	1.000	10.290	44.136
□	2.000		
◇	3.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

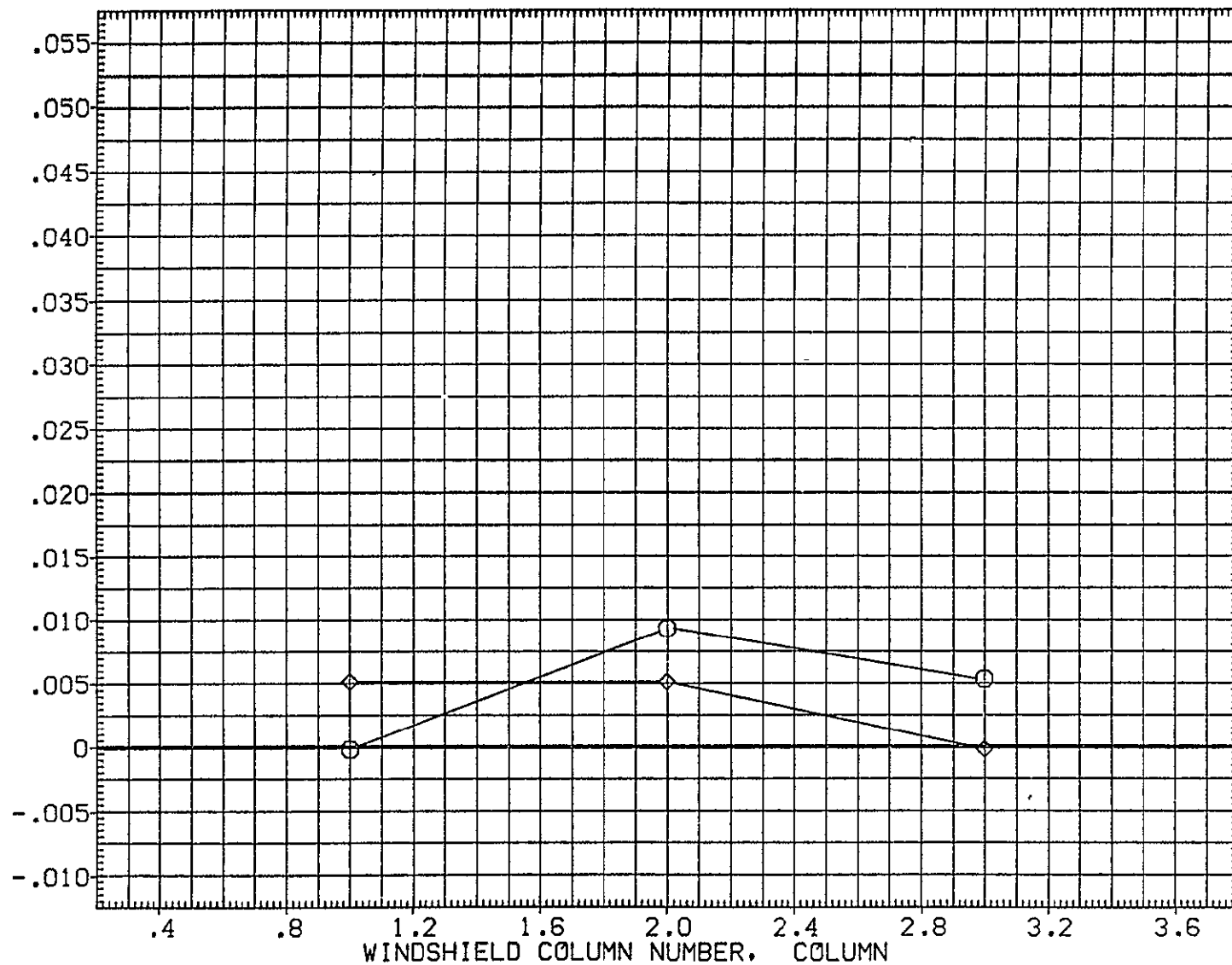


FIG. 11 WINDSHIELD

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

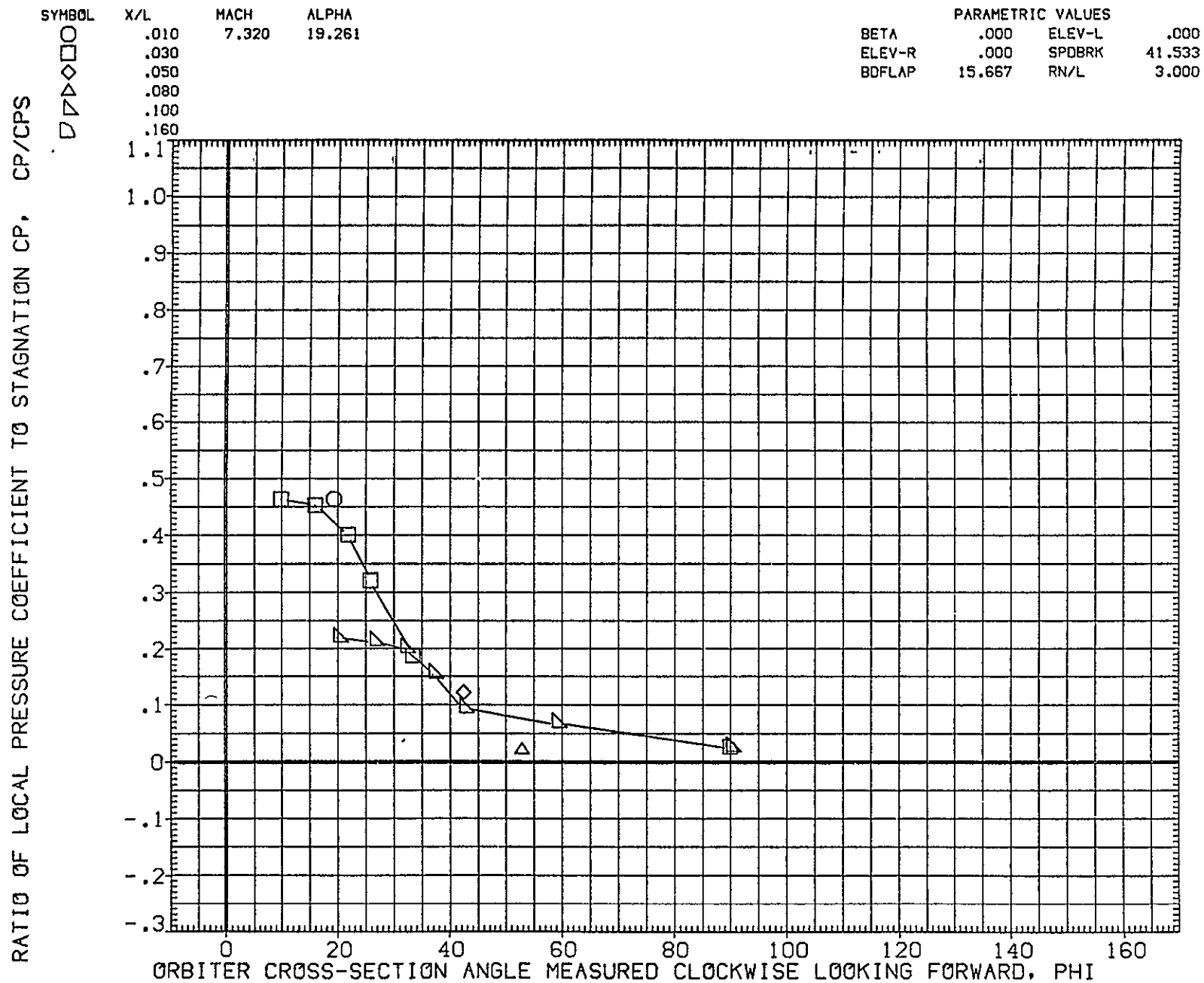


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

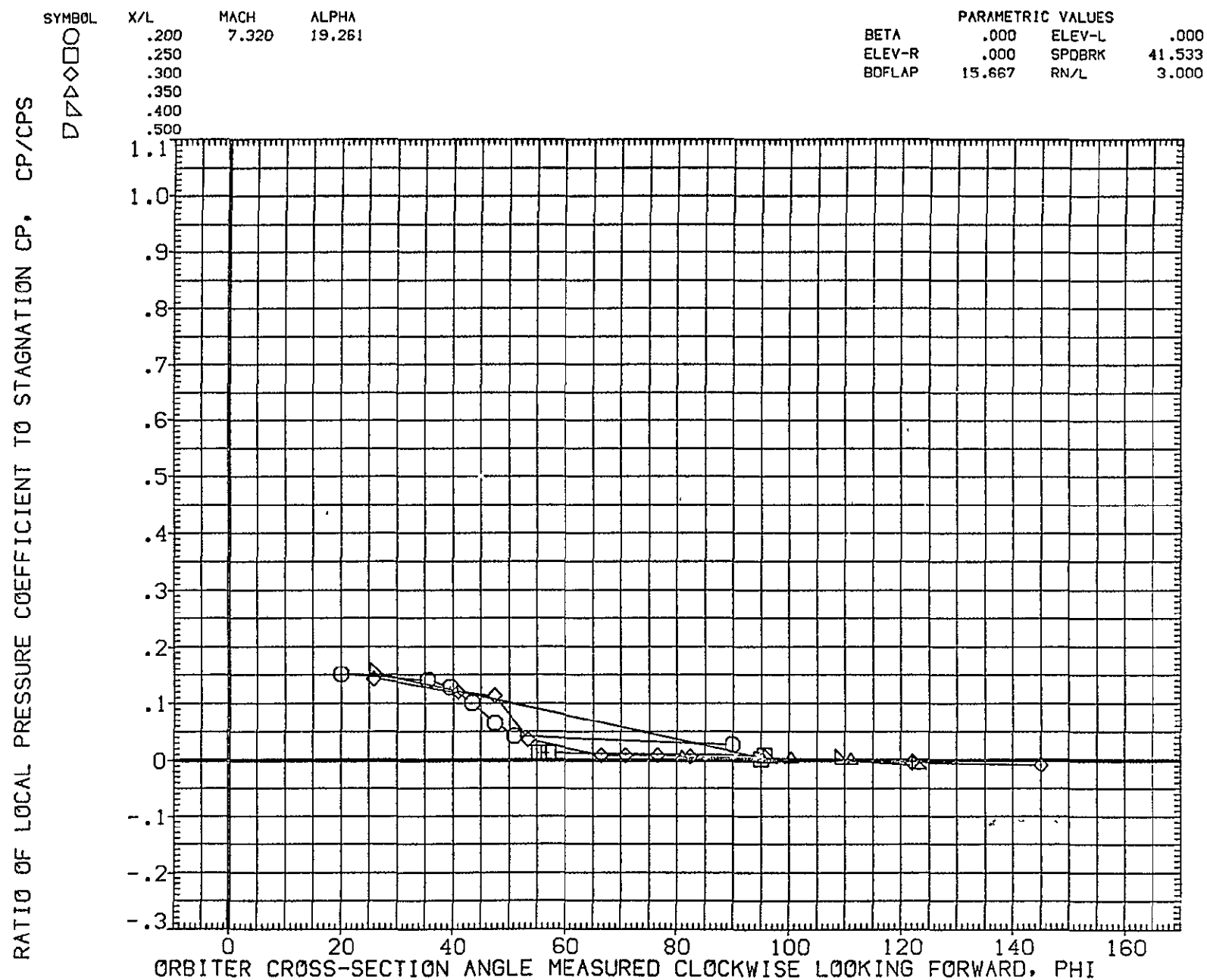


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C ORB FUSELAGE CROSS SECT. (BEZJ35)

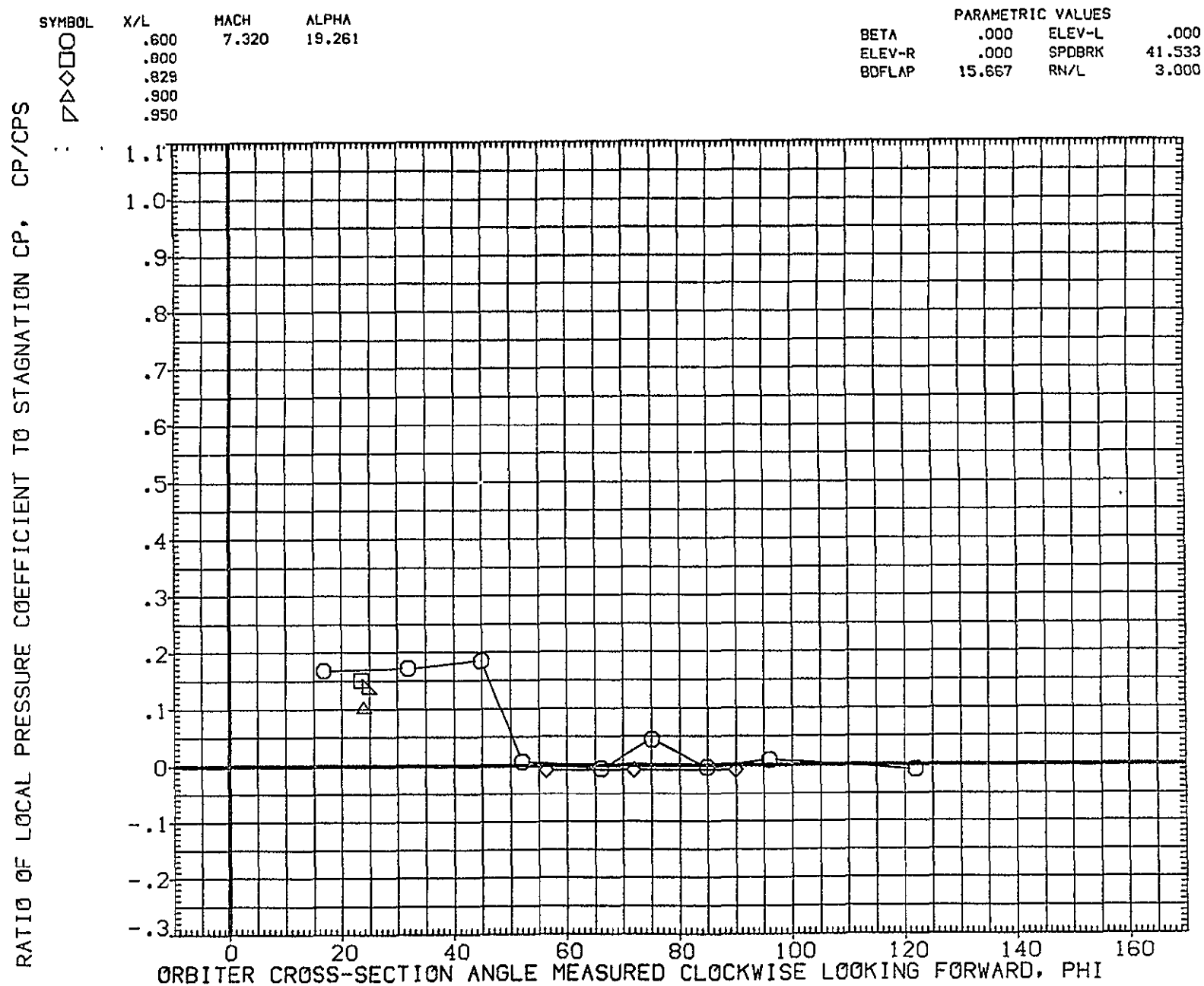


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

SYMBOL  
 O  
 □  
 ◇  
 △  
 ▽

X/L  
 .010  
 .030  
 .050  
 .080  
 .100  
 .160

MACH  
 7.320

ALPHA  
 24.886

PARAMETRIC VALUES

BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

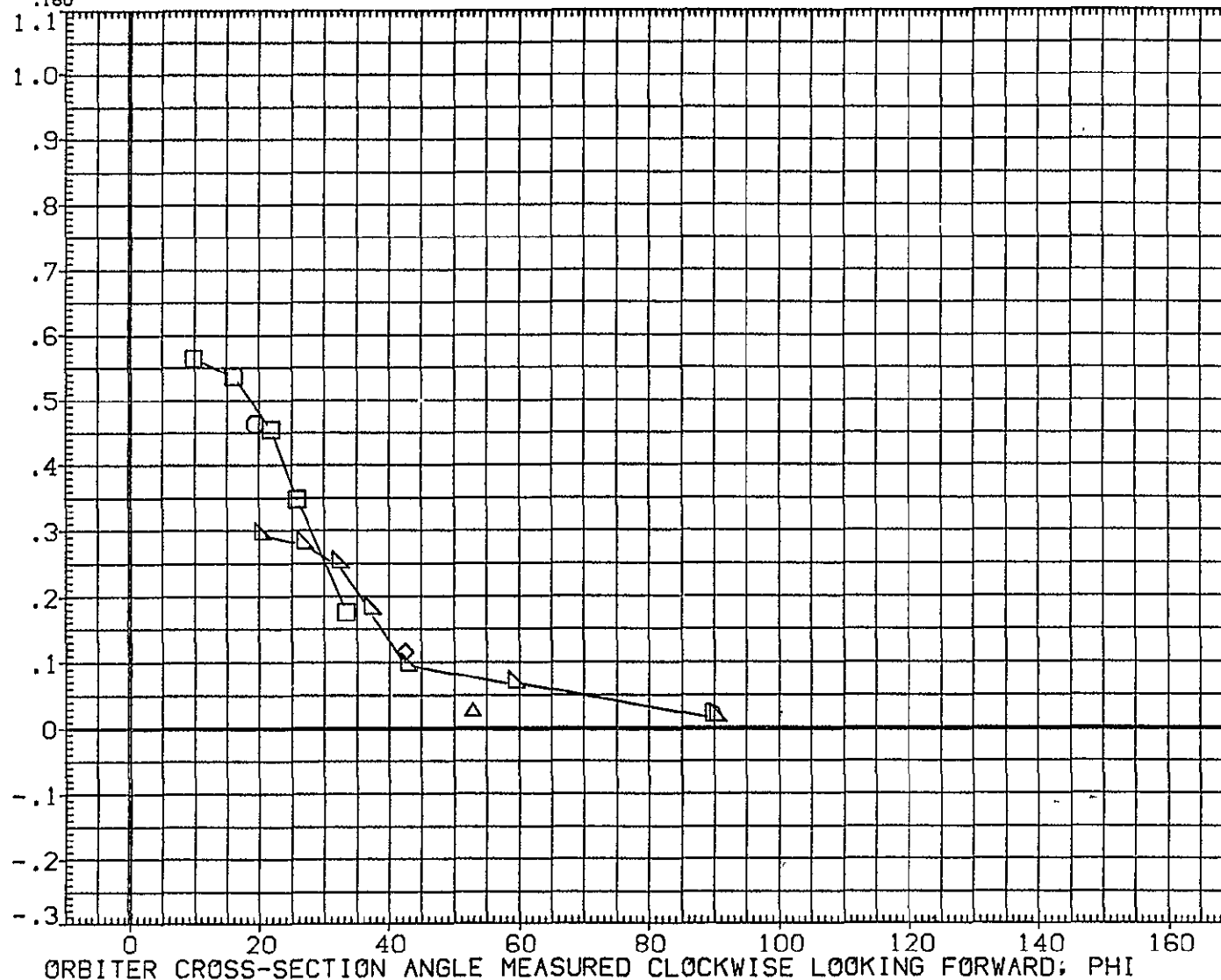


FIG. 12 FUSELAGE CROSS SECTIONS

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR.

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

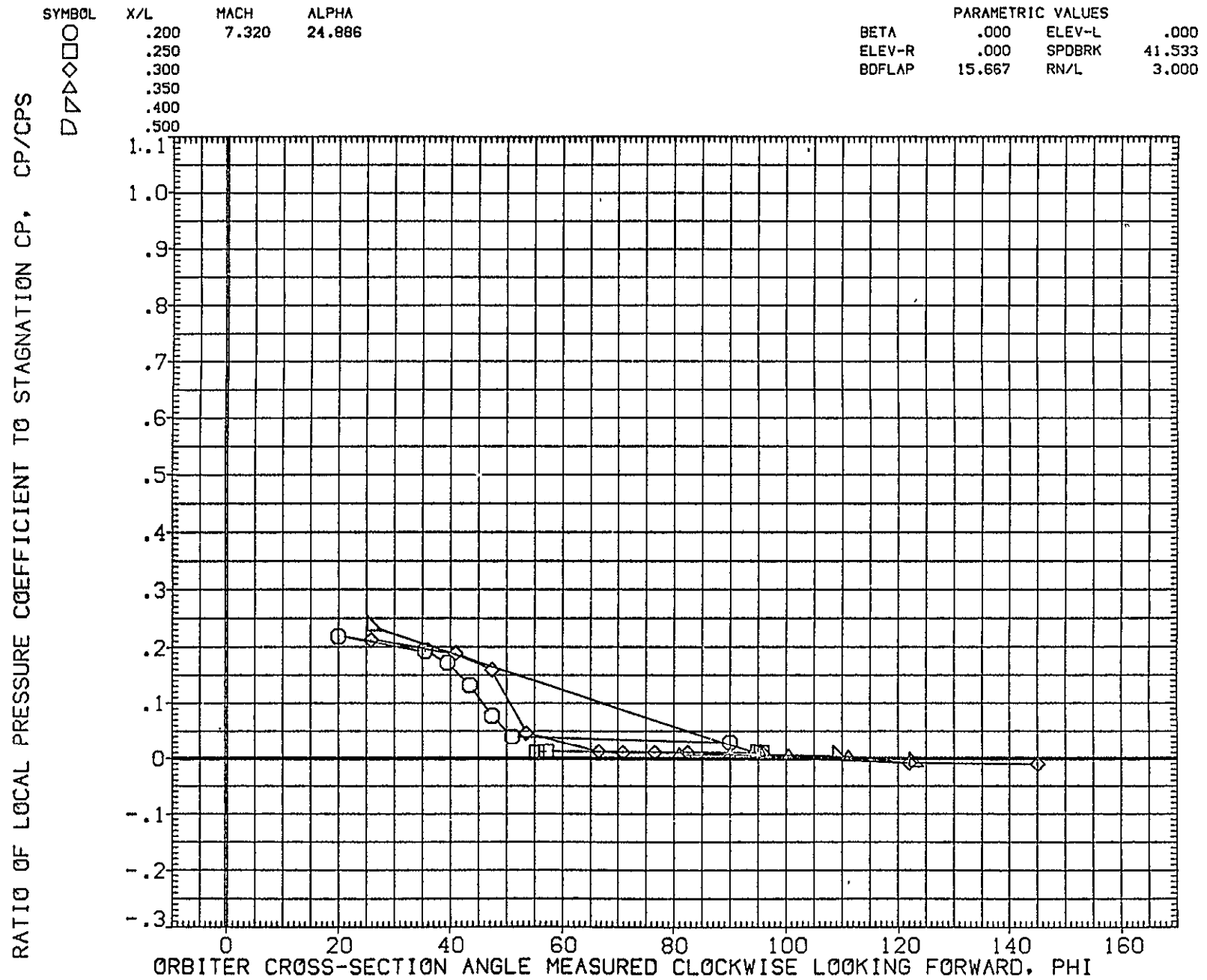


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ35)

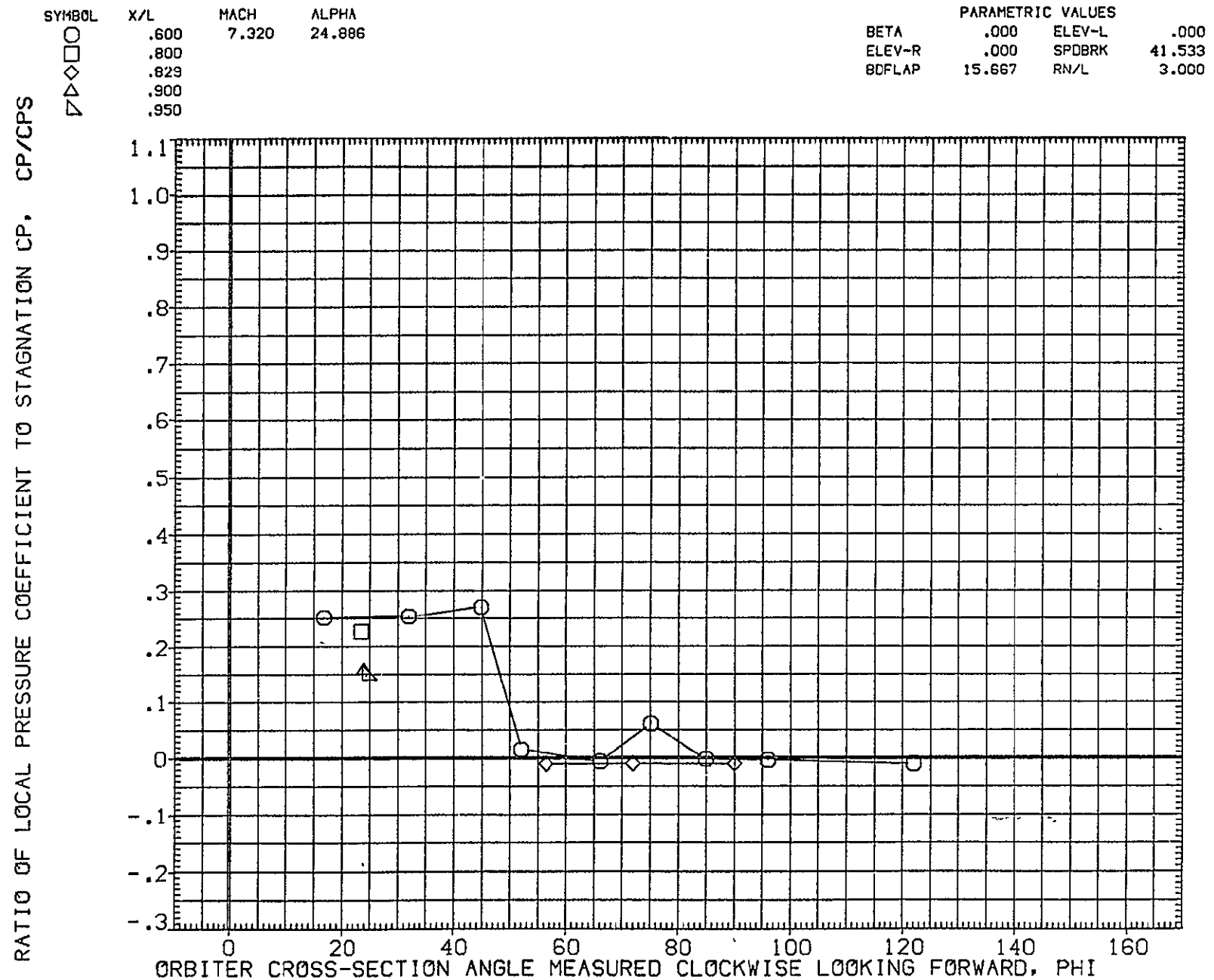


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

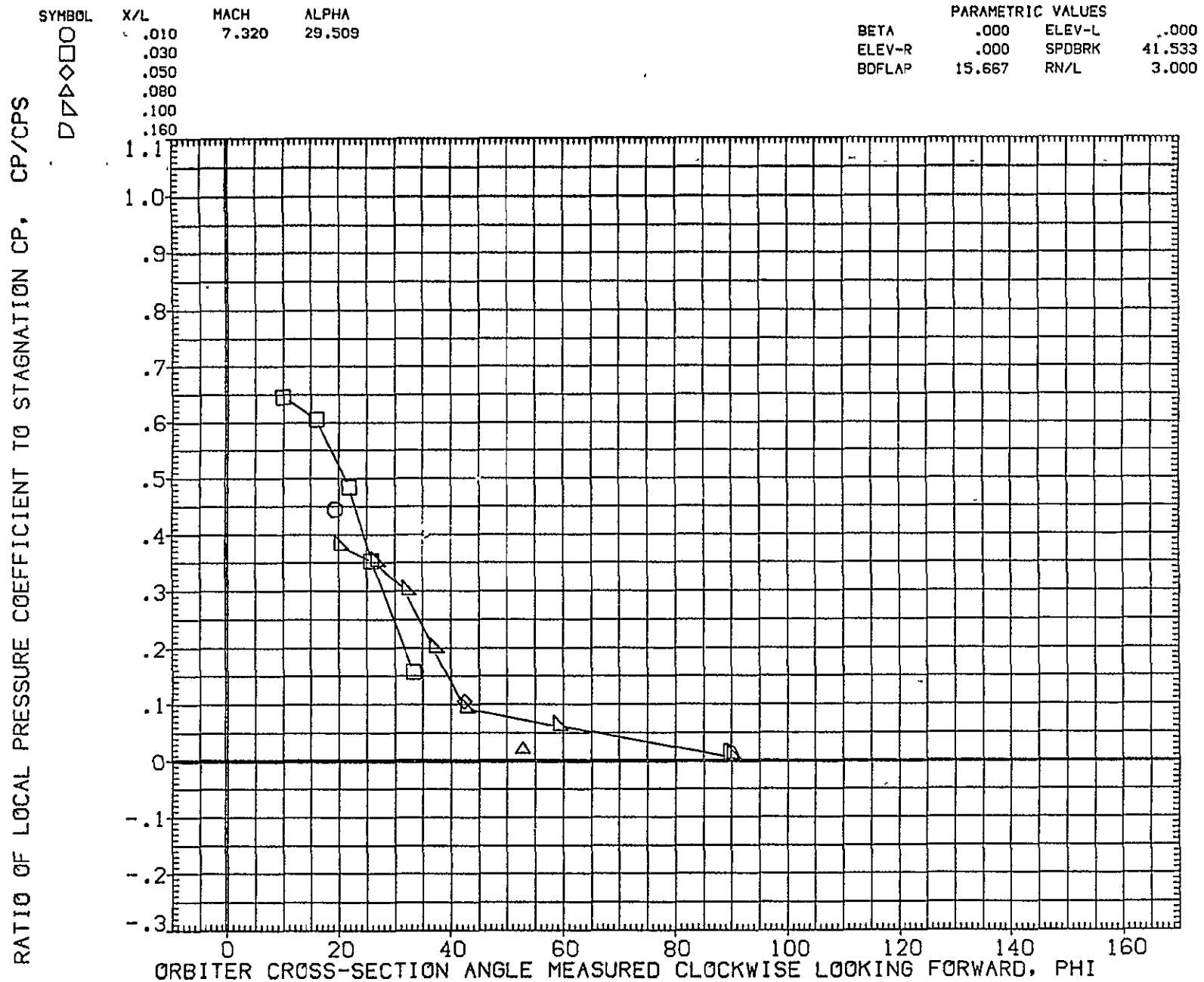


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ35)

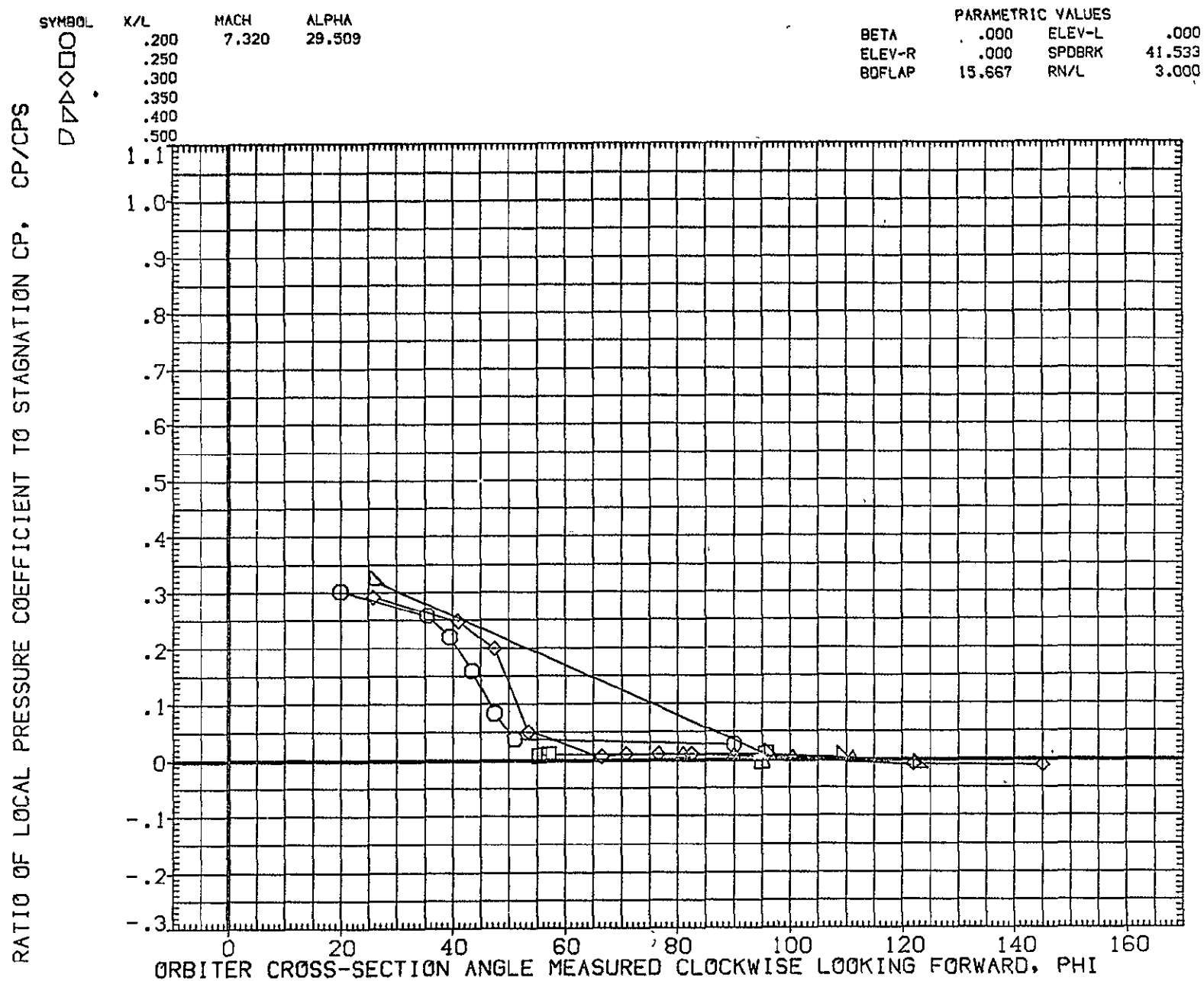


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ35)

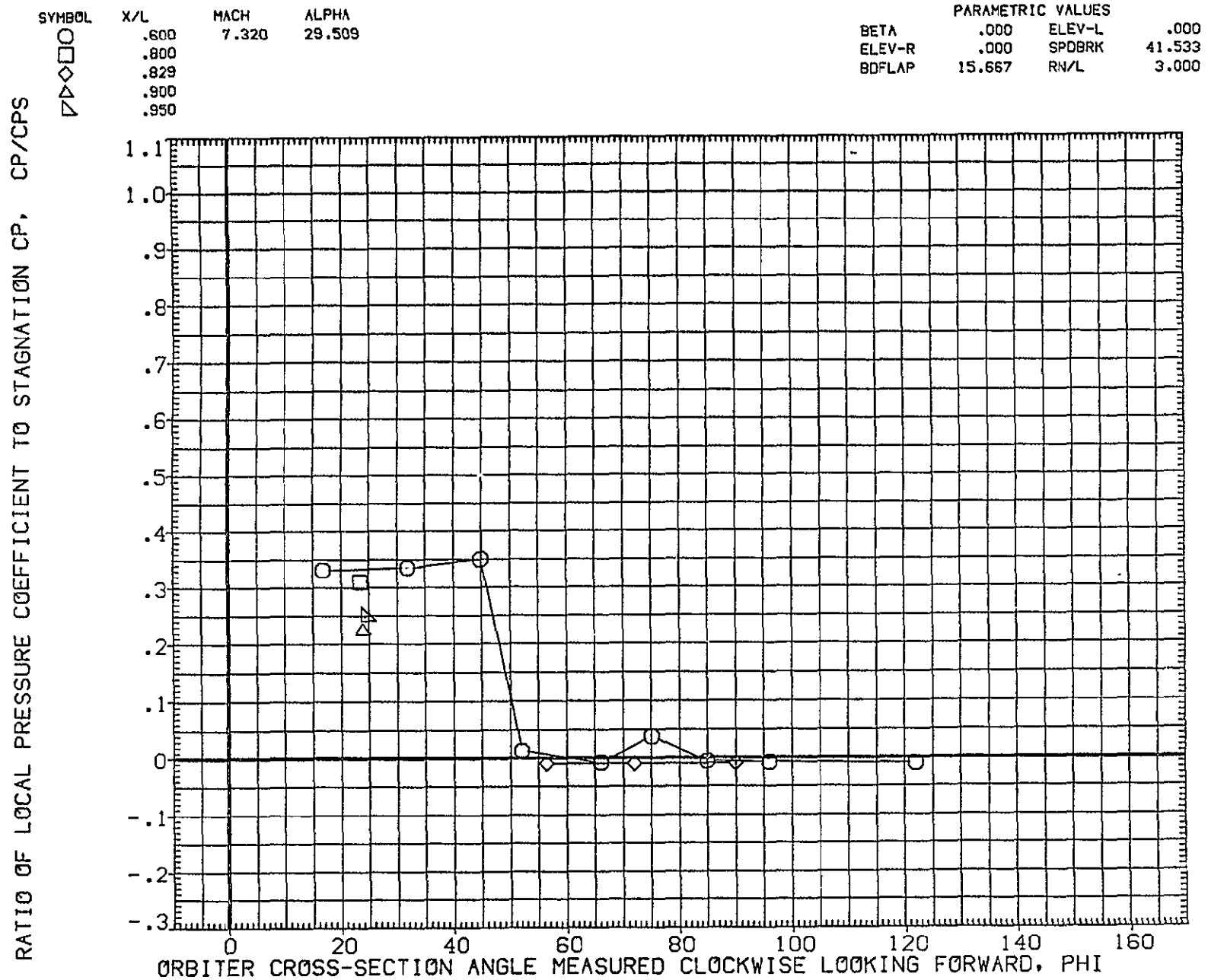


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

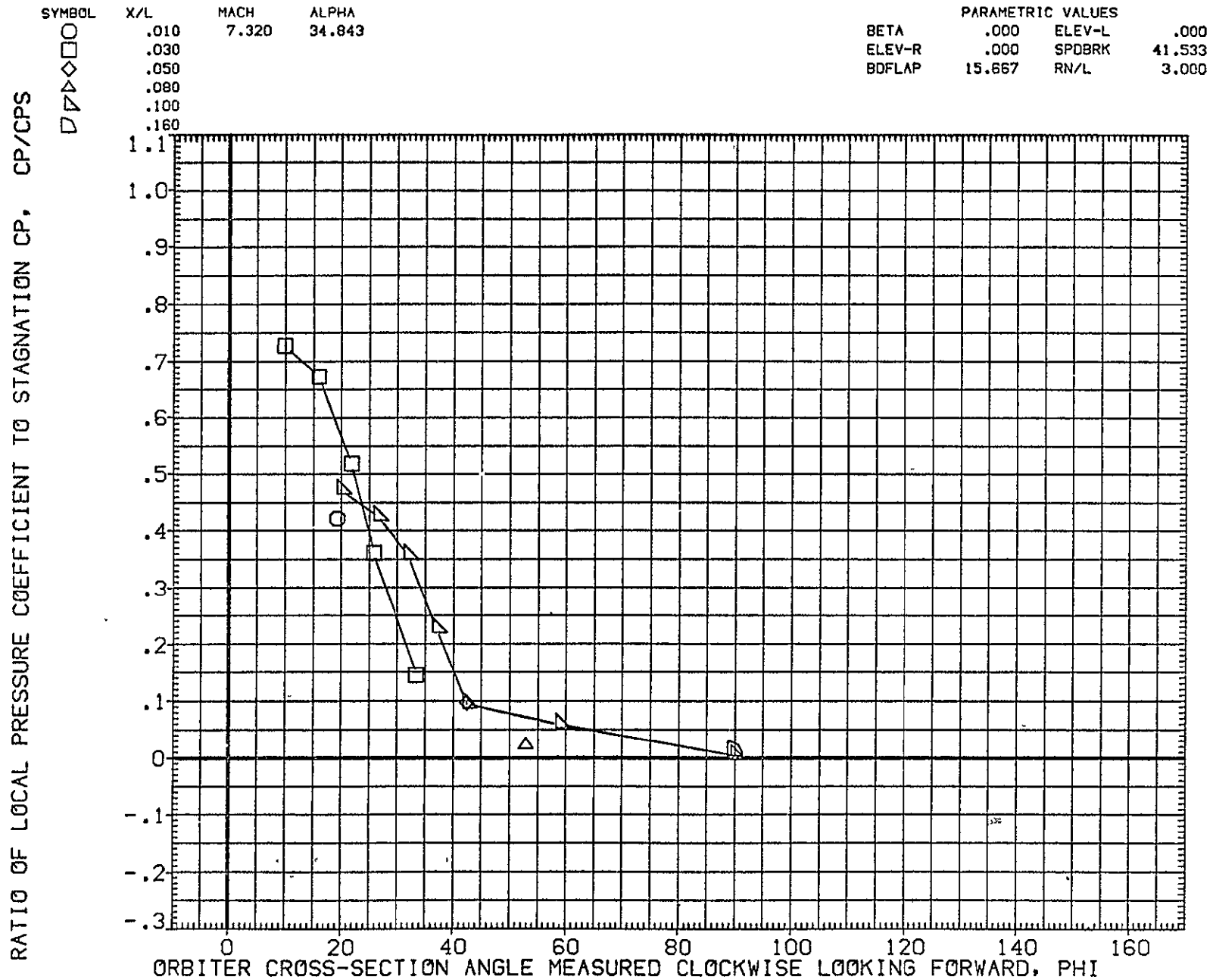


FIG. 12 FUSELAGE CROSS SECTIONS

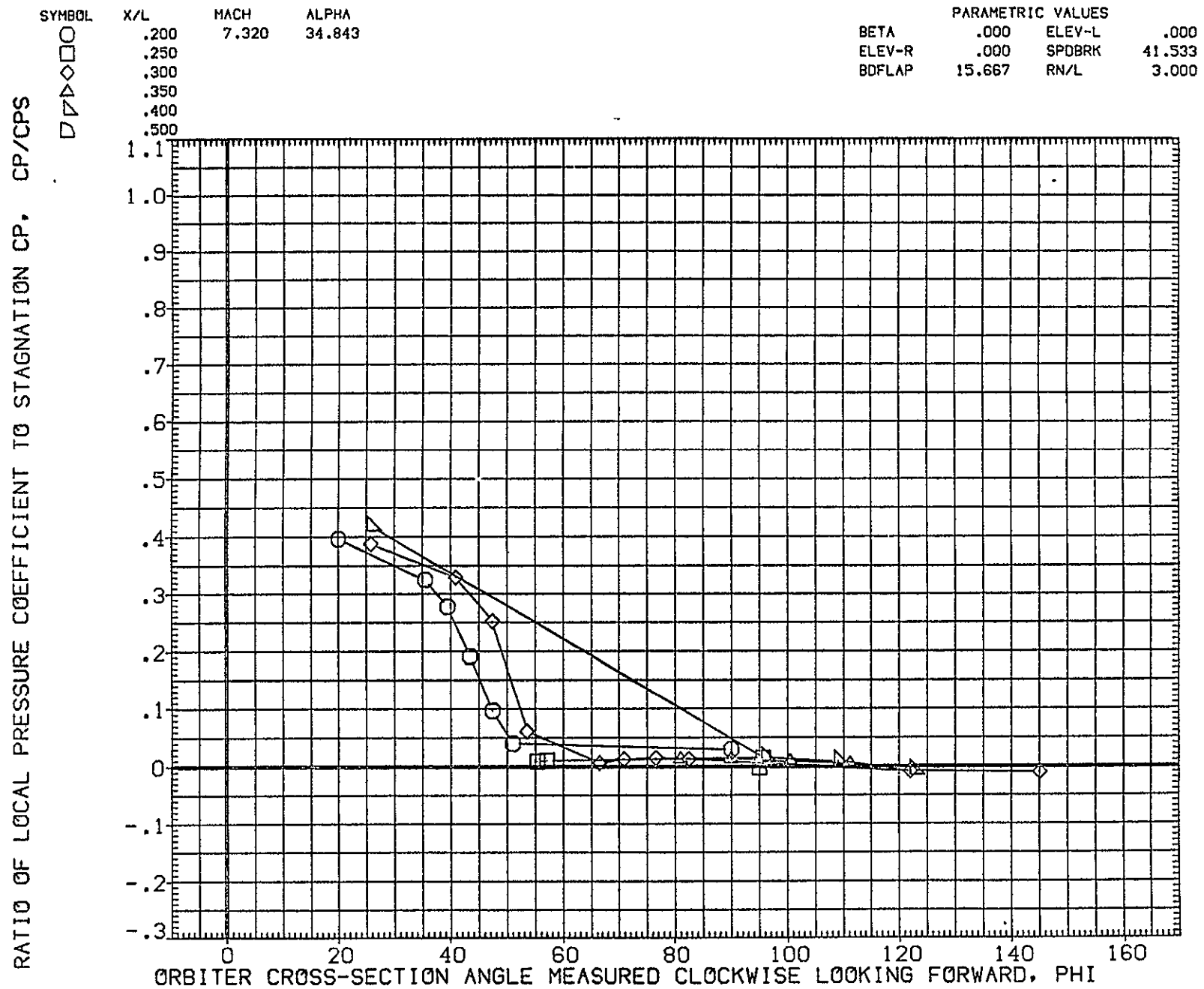


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ35)

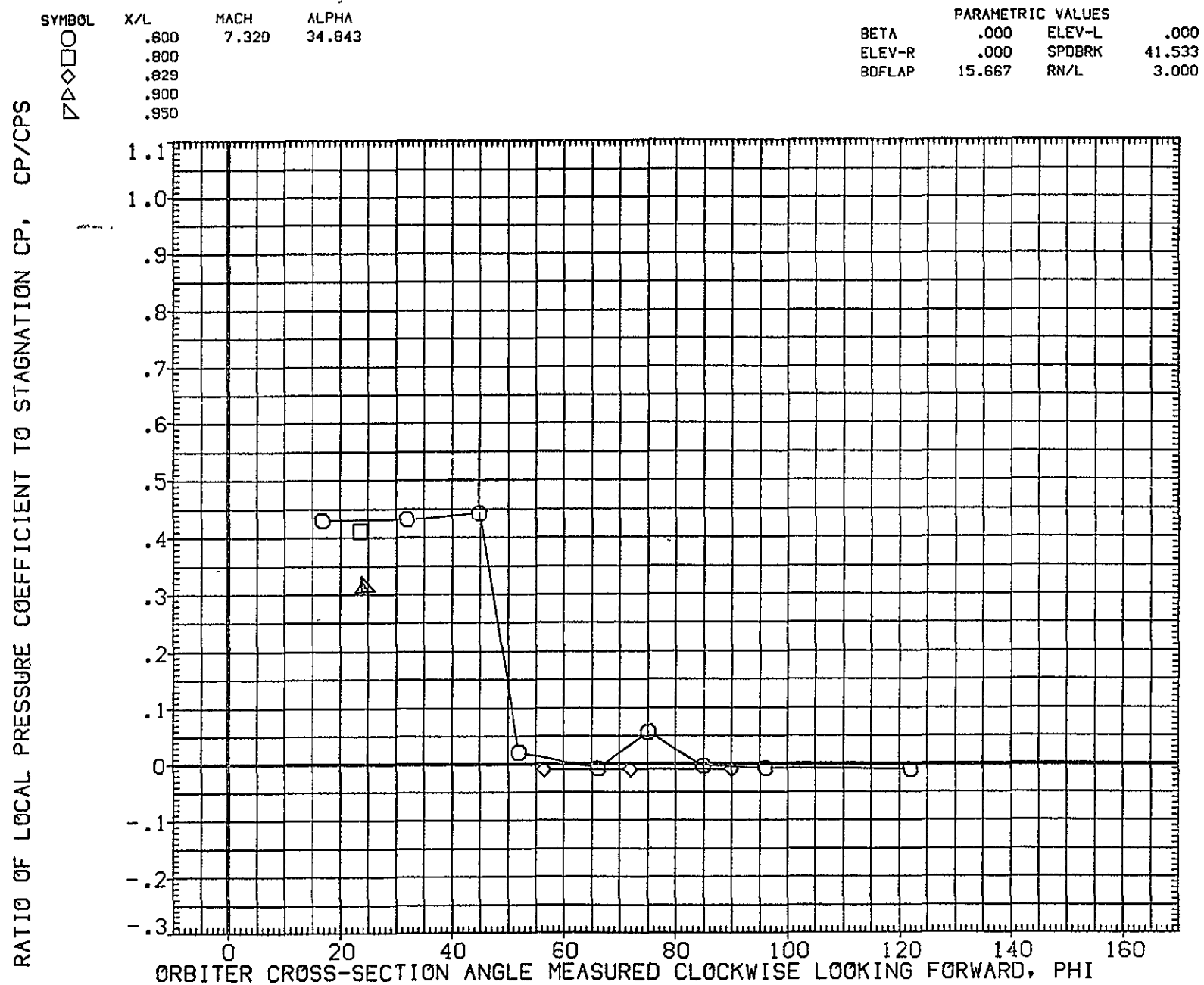


FIG. 12 FUSELAGE CROSS SECTIONS

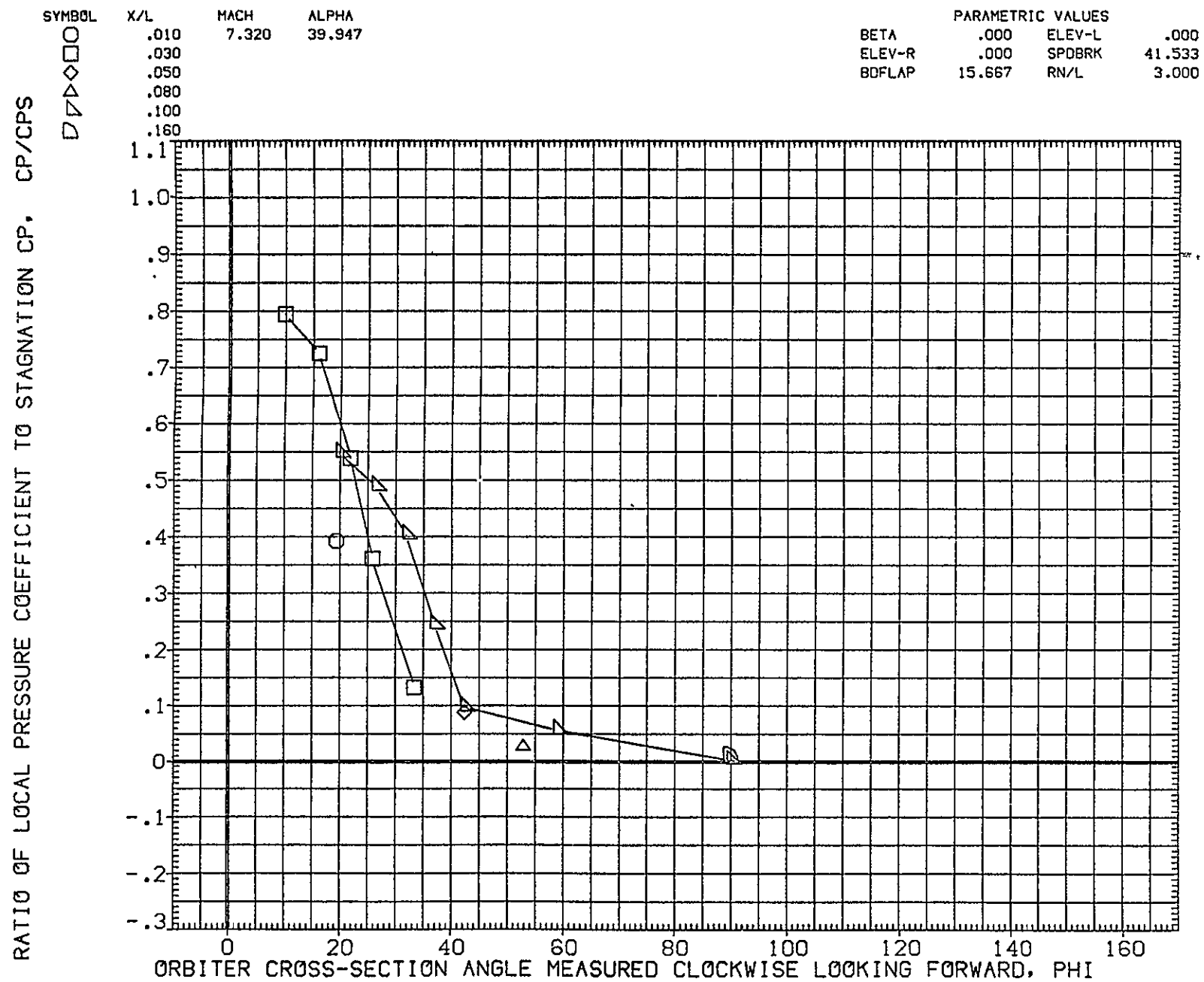


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

SYMBOL	X/L	MACH	ALPHA	PARAMETRIC VALUES			
	.200	7.320	39.947	BETA	.000	ELEV-L	.000
	.250			ELEV-R	.000	SPDBRK	41.533
	.300			BDFLAP	15.667	RN/L	3.000
	.350						
.400							
.500							

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

○ □ ◇ △ ▽

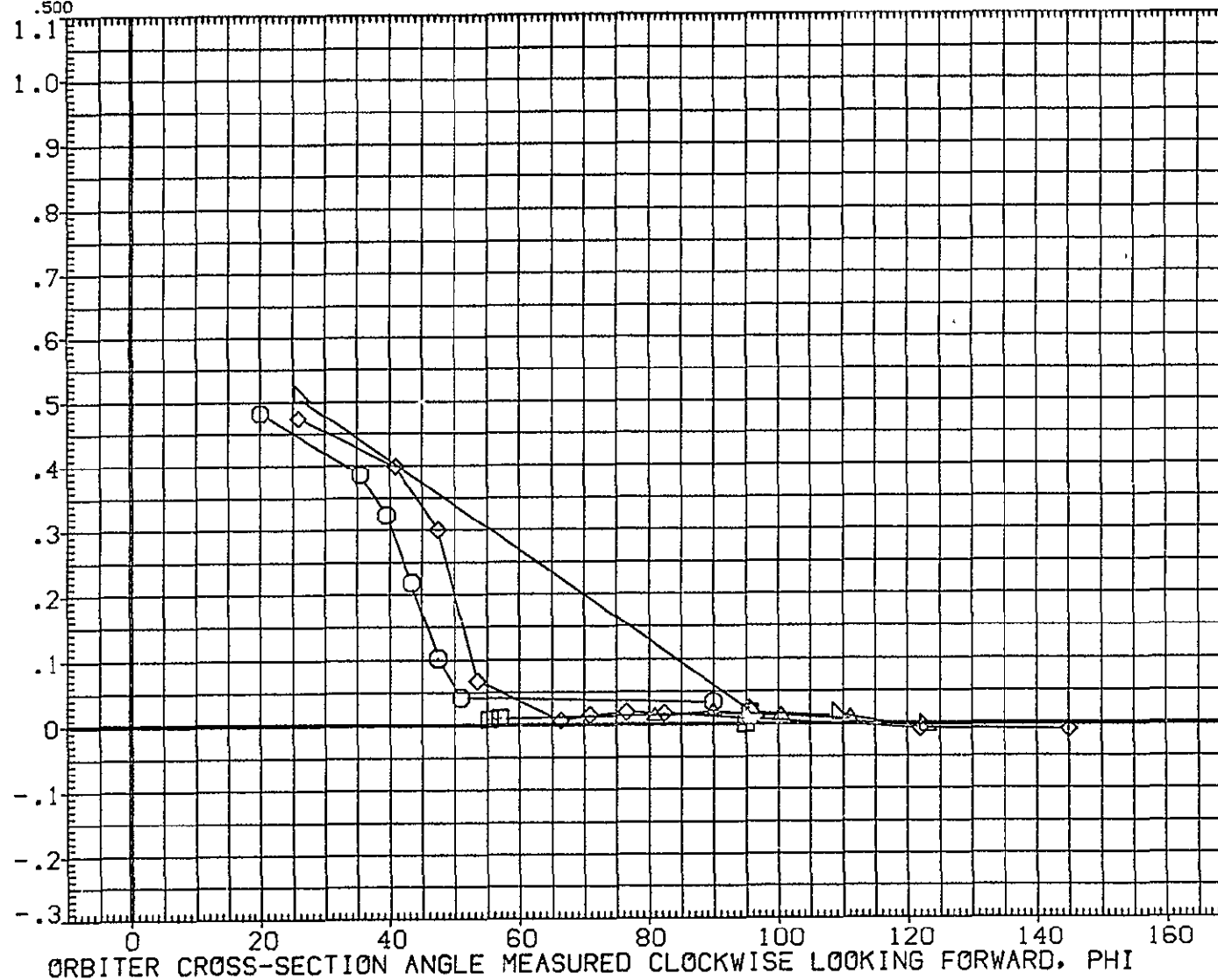


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

SYMBOL  
 ○  
 □  
 ◇  
 △  
 ▽

X/L	MACH	ALPHA
.600	7.320	39.947
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.000
ELEV-R	.000	SPDBRK	41.533
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

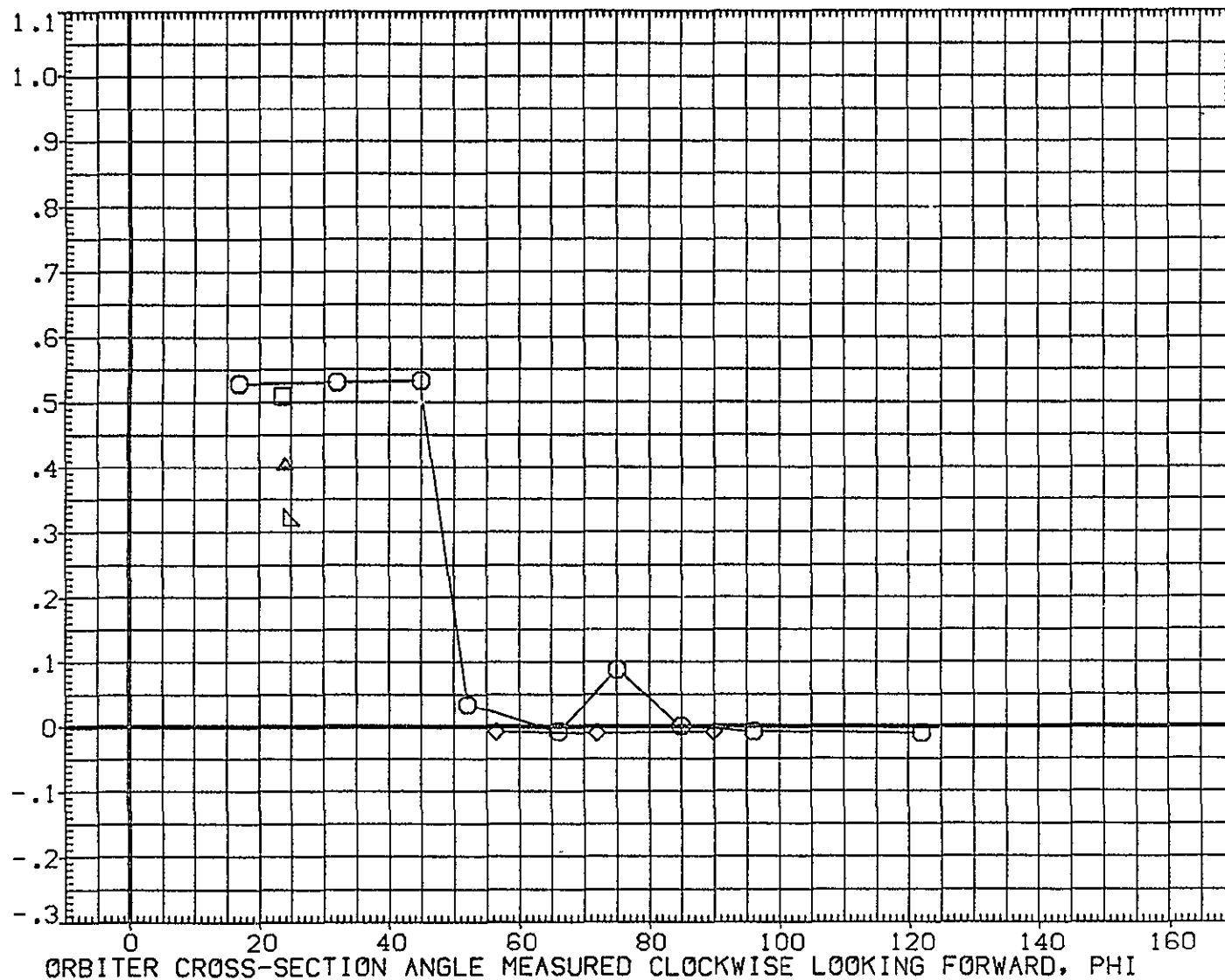


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

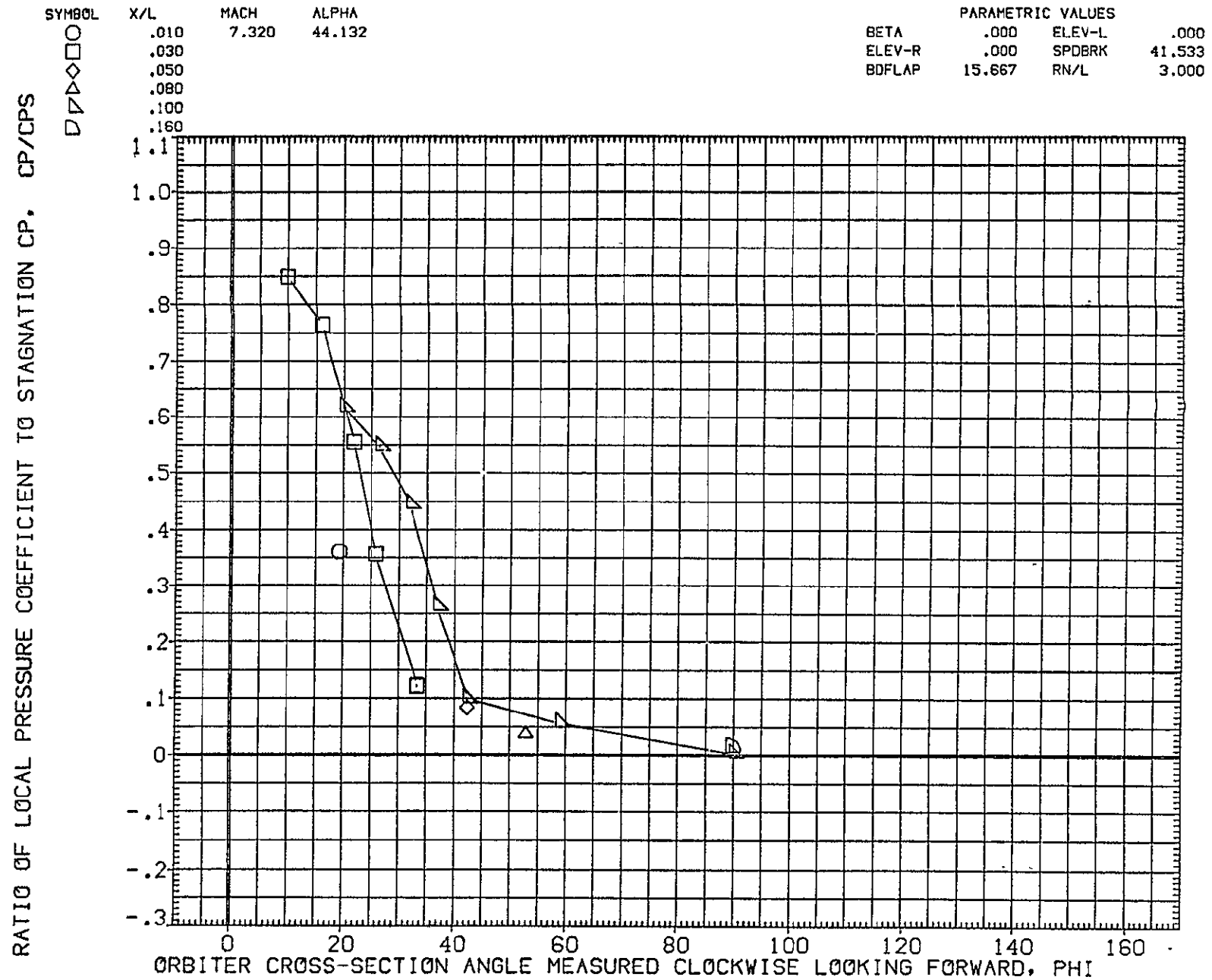


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ35)

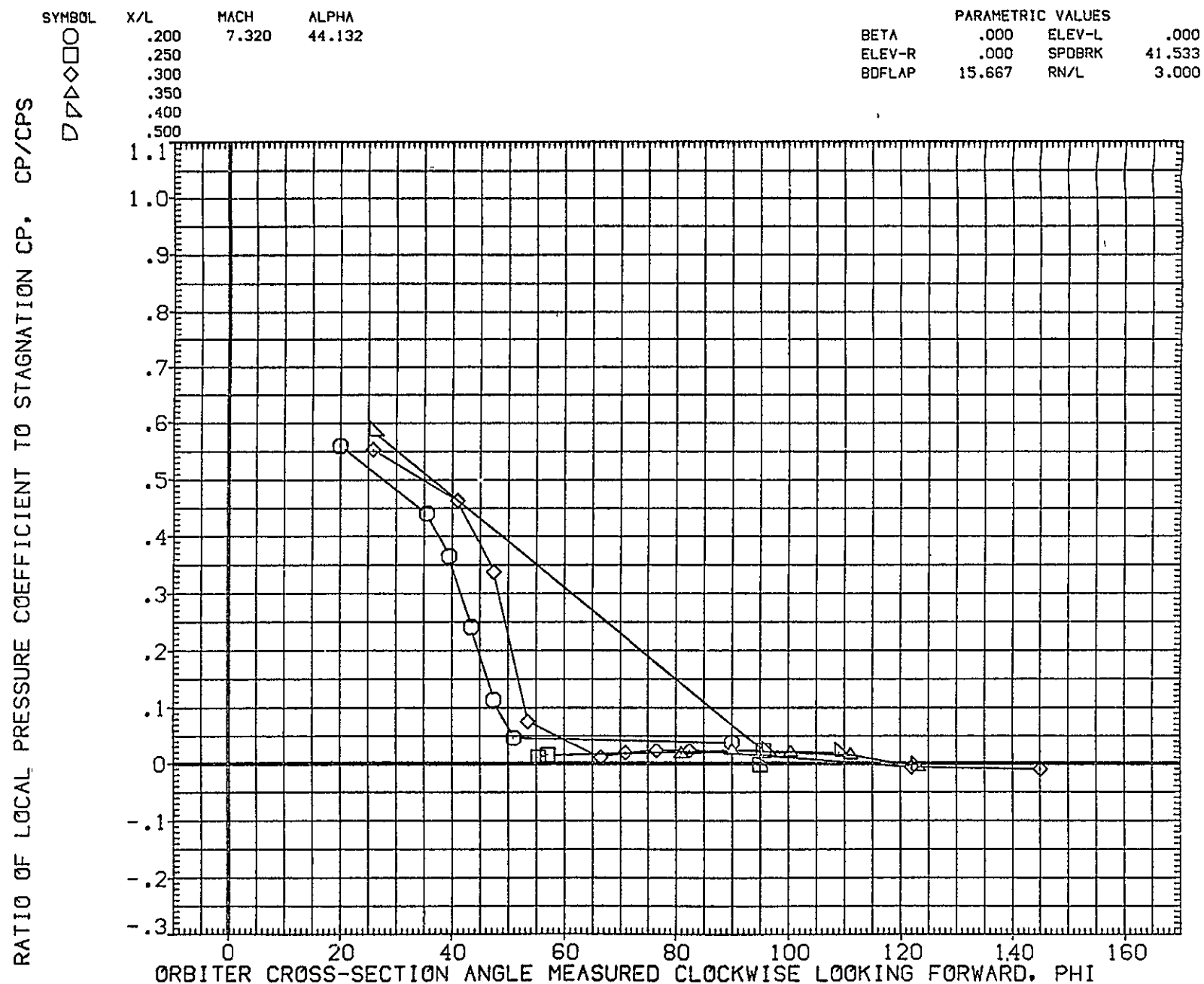


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ35)

SYMBOL  
 $\square$   
 $\diamond$   
 $\triangle$   
 $\nabla$

X/L      MACH      ALPHA  
 .600      7.320      44.132  
 .800  
 .829  
 .900  
 .950

PARAMETRIC VALUES  
 BETA      .000      ELEV-L      .000  
 ELEV-R      .000      SPDBRK      41.533  
 BDFLAP      15.667      RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

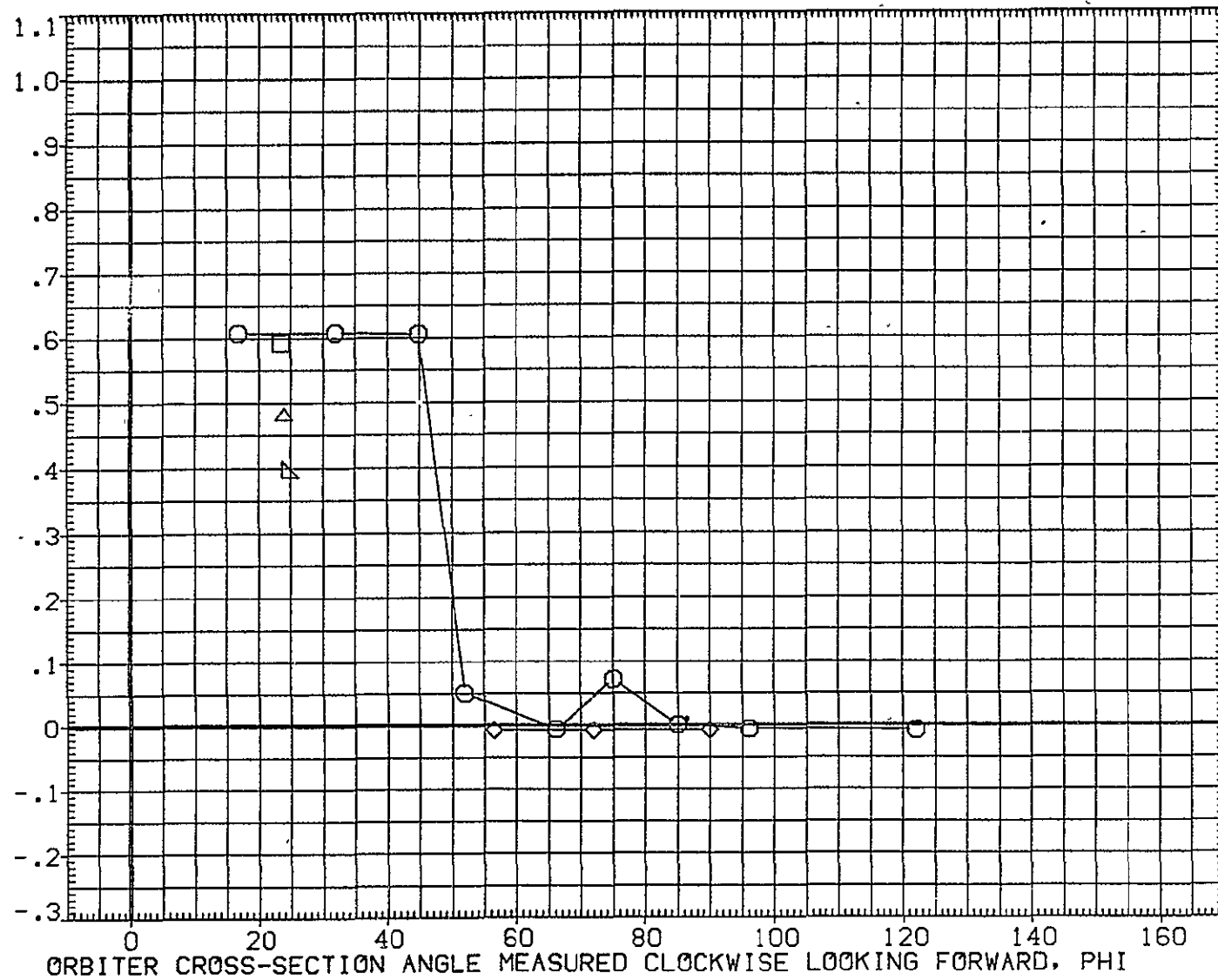


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

SYMBOL  
 $\square$   
 $\diamond$   
 $\triangle$   
 $\nabla$   
 $\square$   
 $\diamond$   
 $\triangle$   
 $\nabla$

X/L  
 .010  
 .030  
 .050  
 .080  
 .100  
 .160

MACH  
 7.320

ALPHA  
 19.289

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

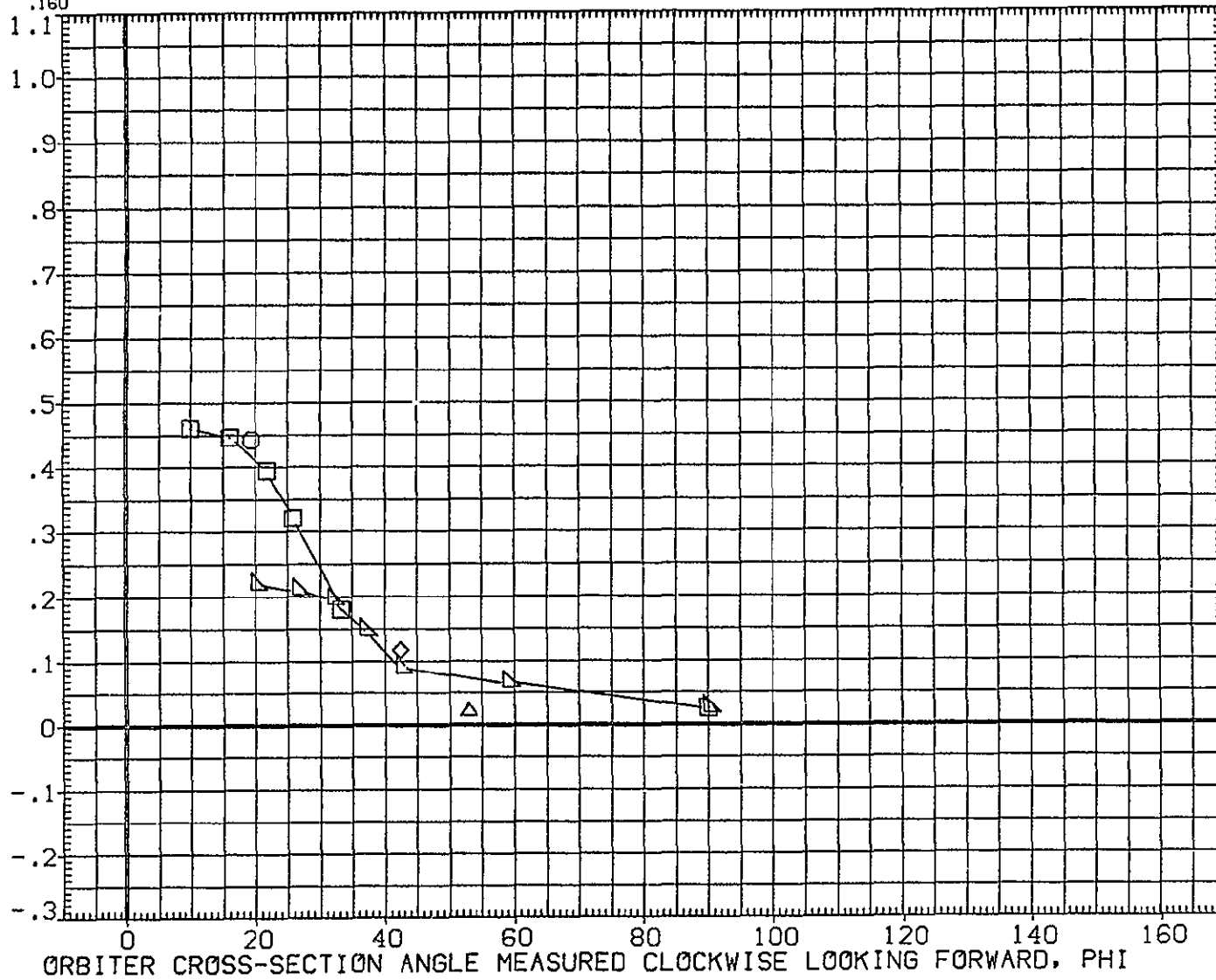


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

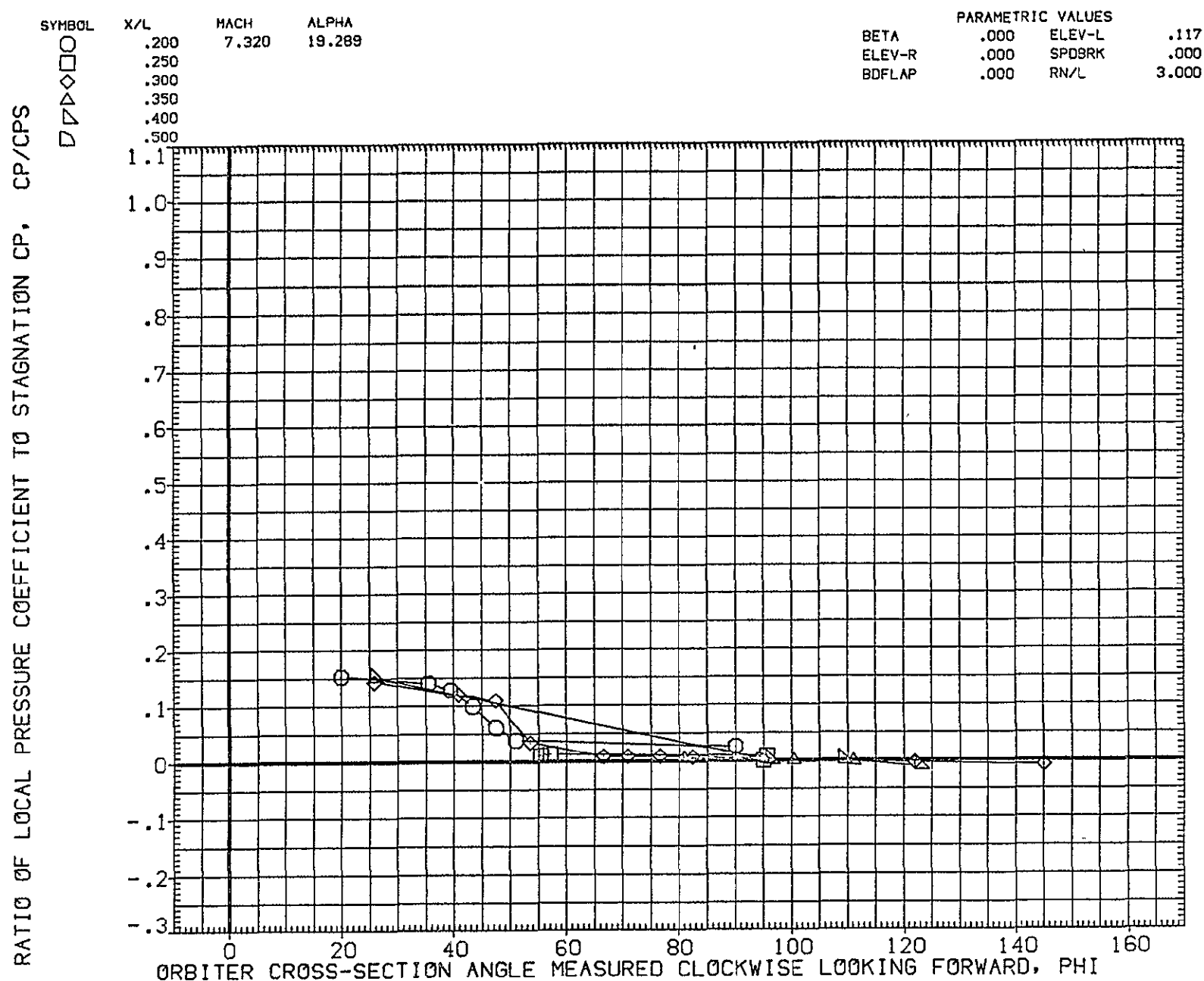


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

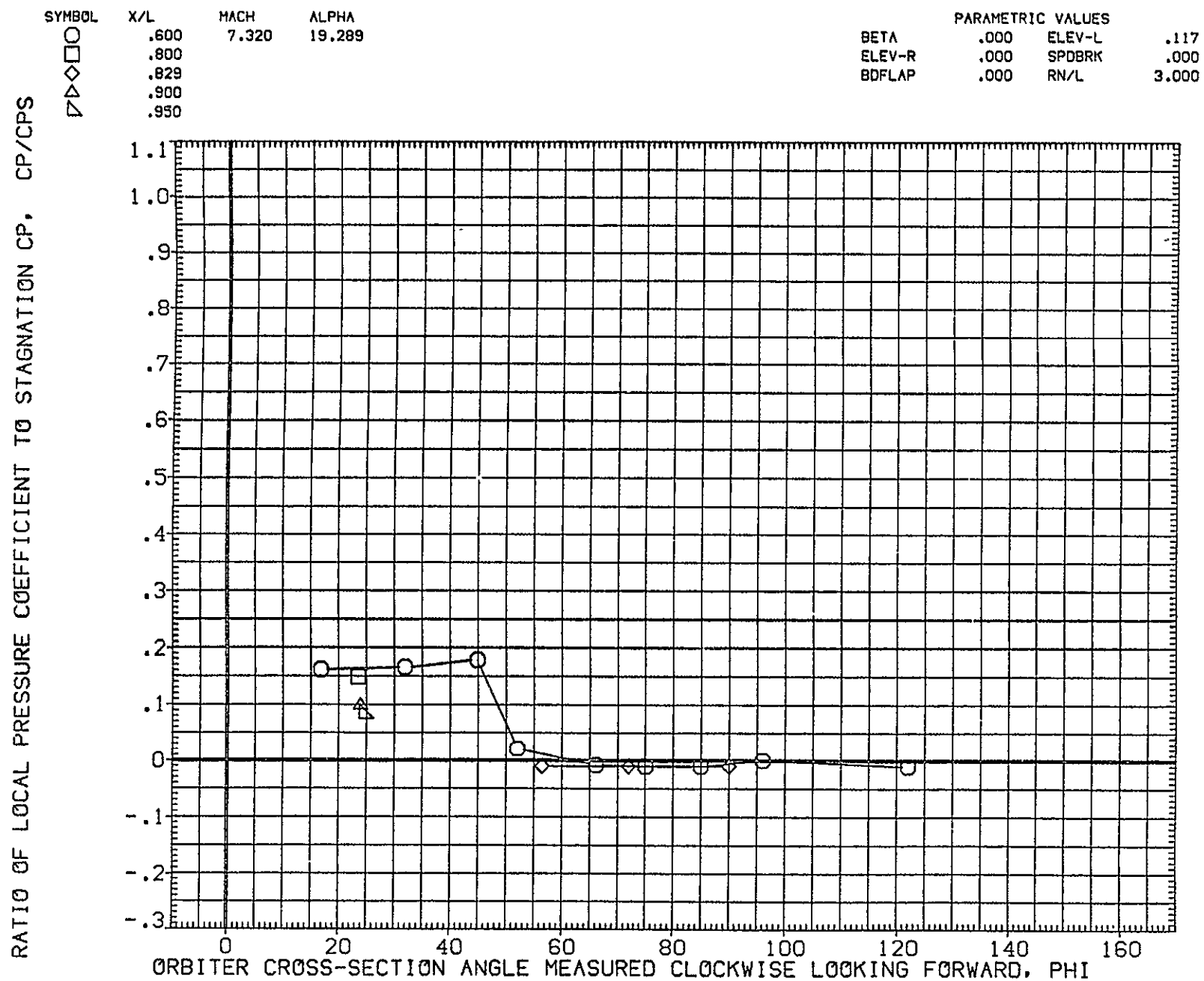


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

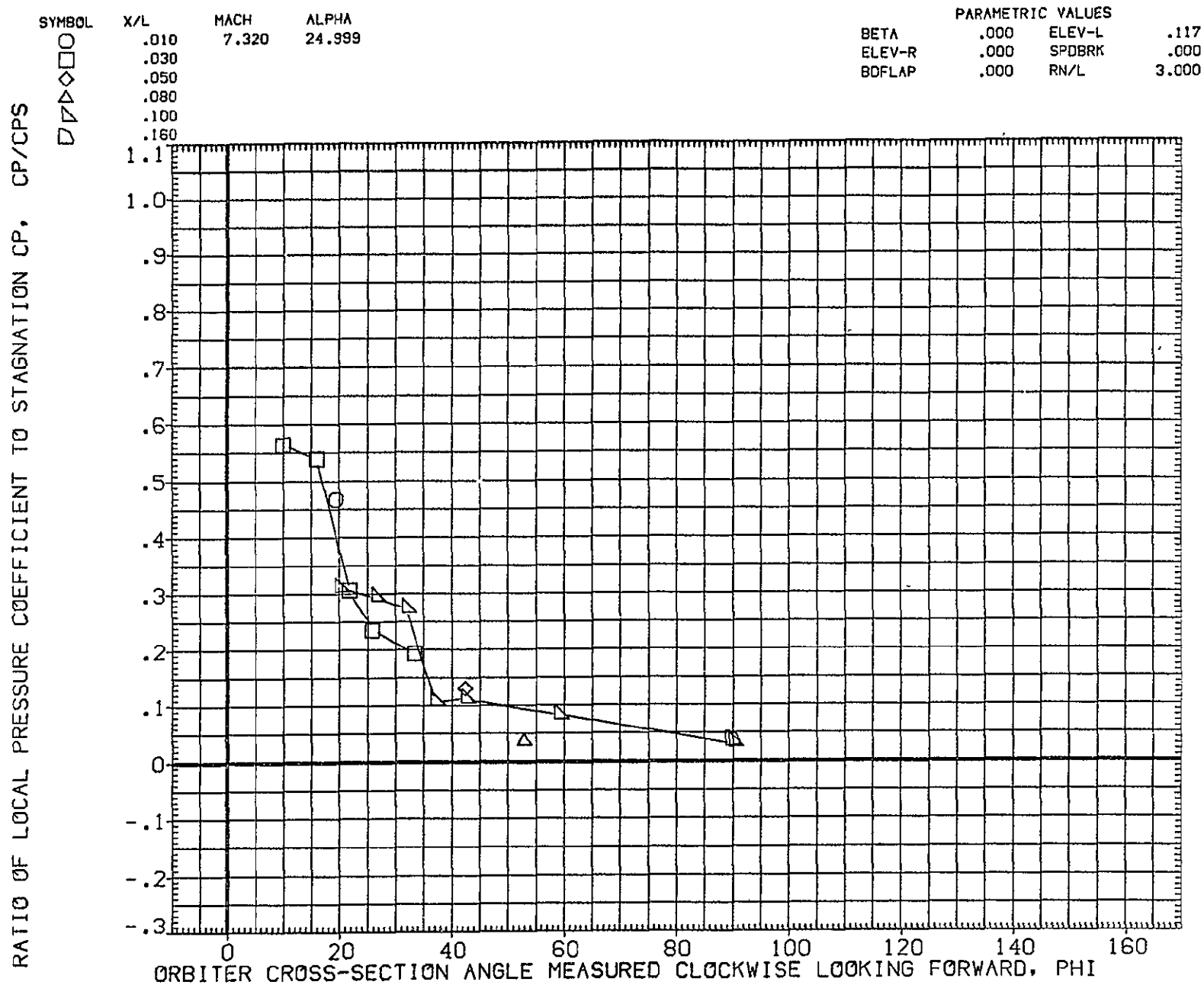


FIG. 12 FUSELAGE CROSS SECTIONS

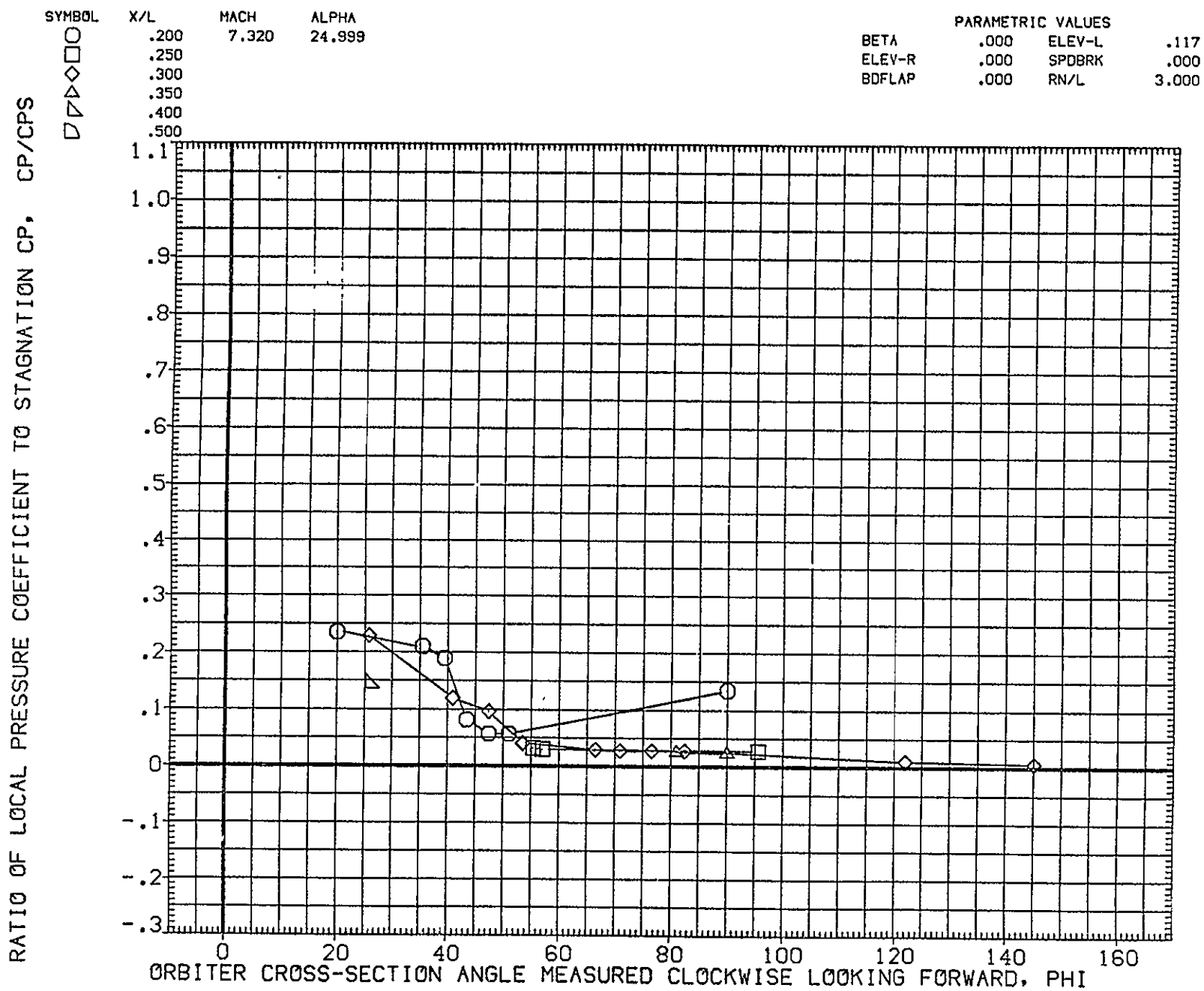


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

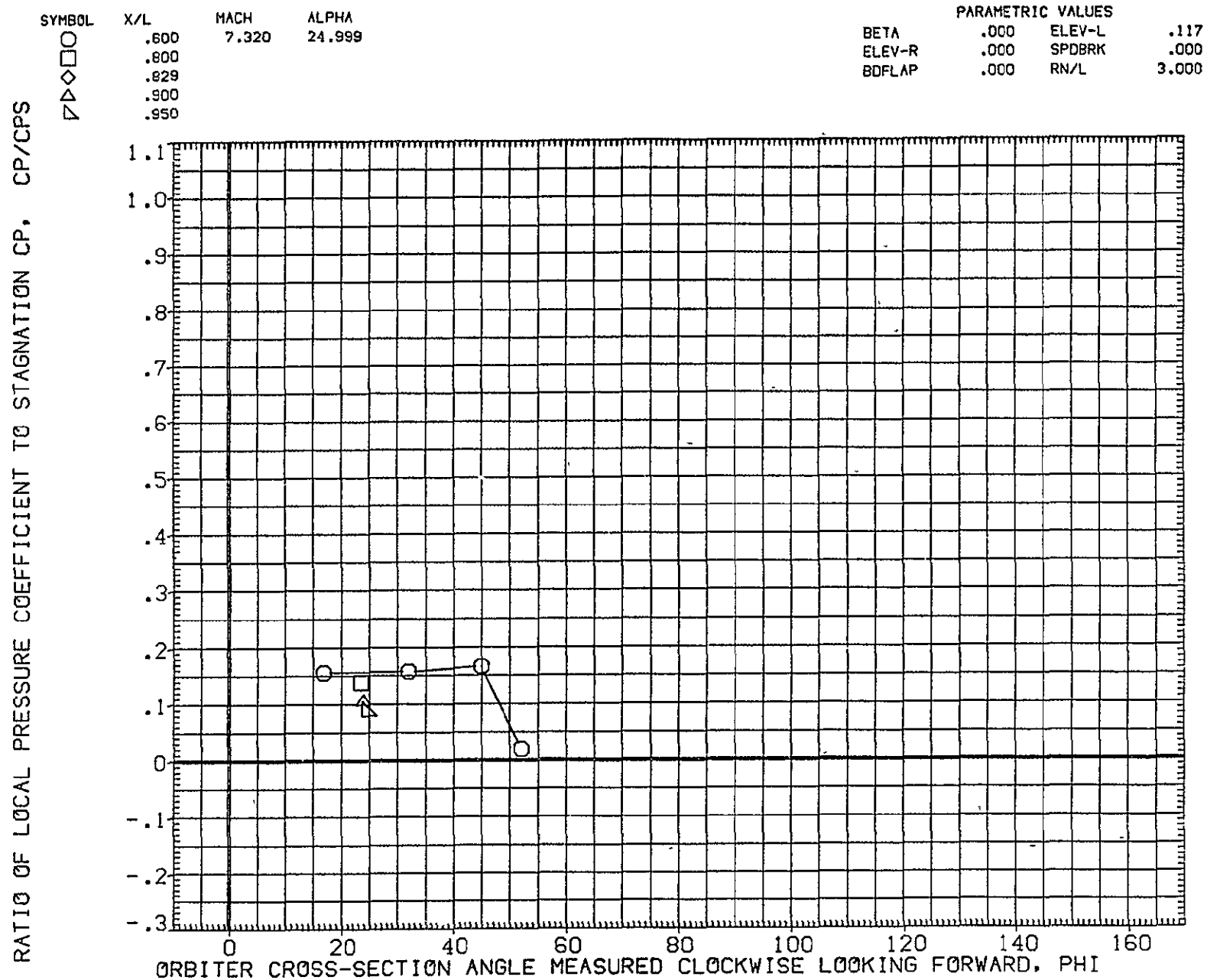


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

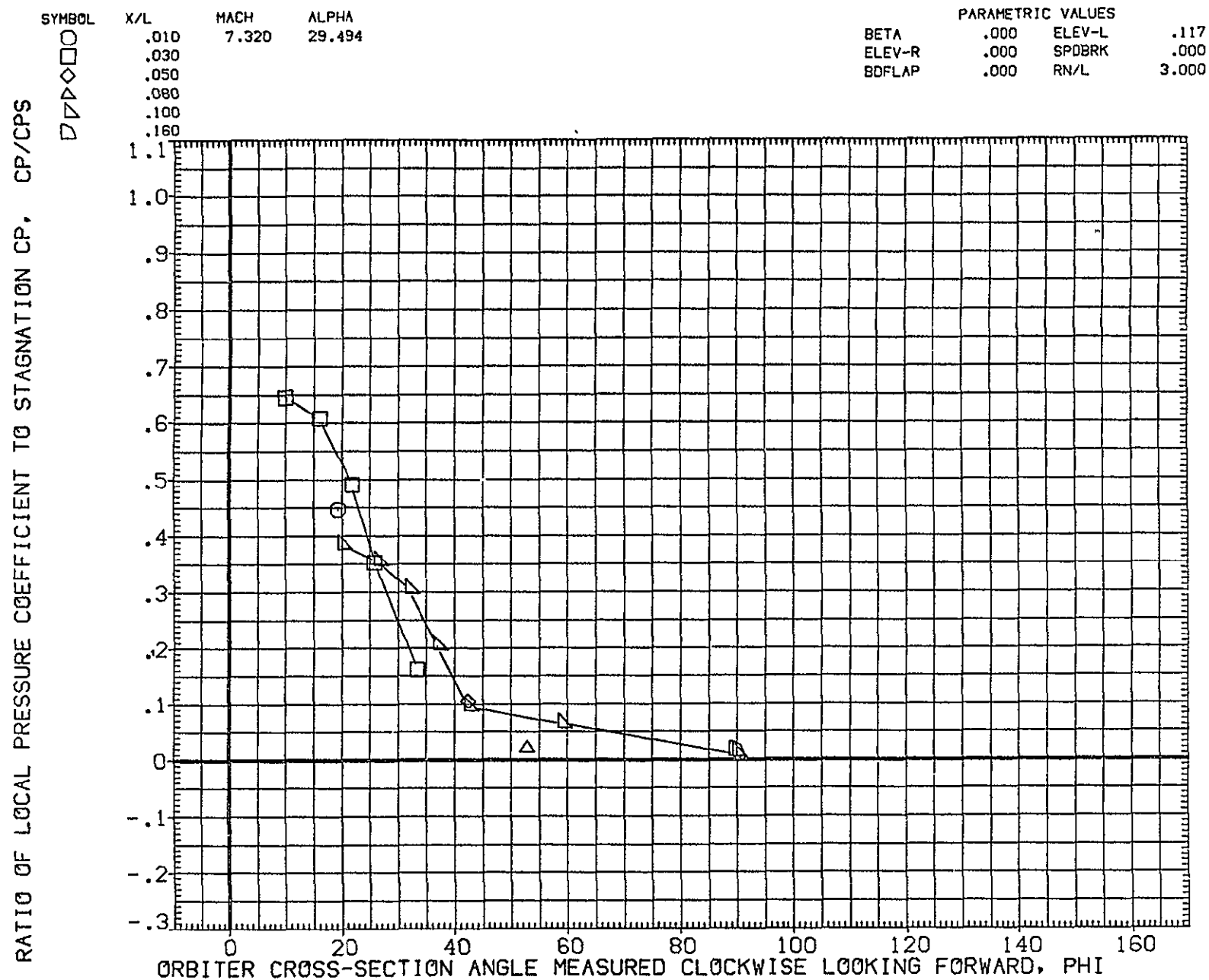


FIG. 12 FUSELAGE CROSS SECTIONS

## RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

SYMBOL

X/L	MACH	ALPHA
.200	7.320	29.494
.250		
.300		
.350		
.400		
.500		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

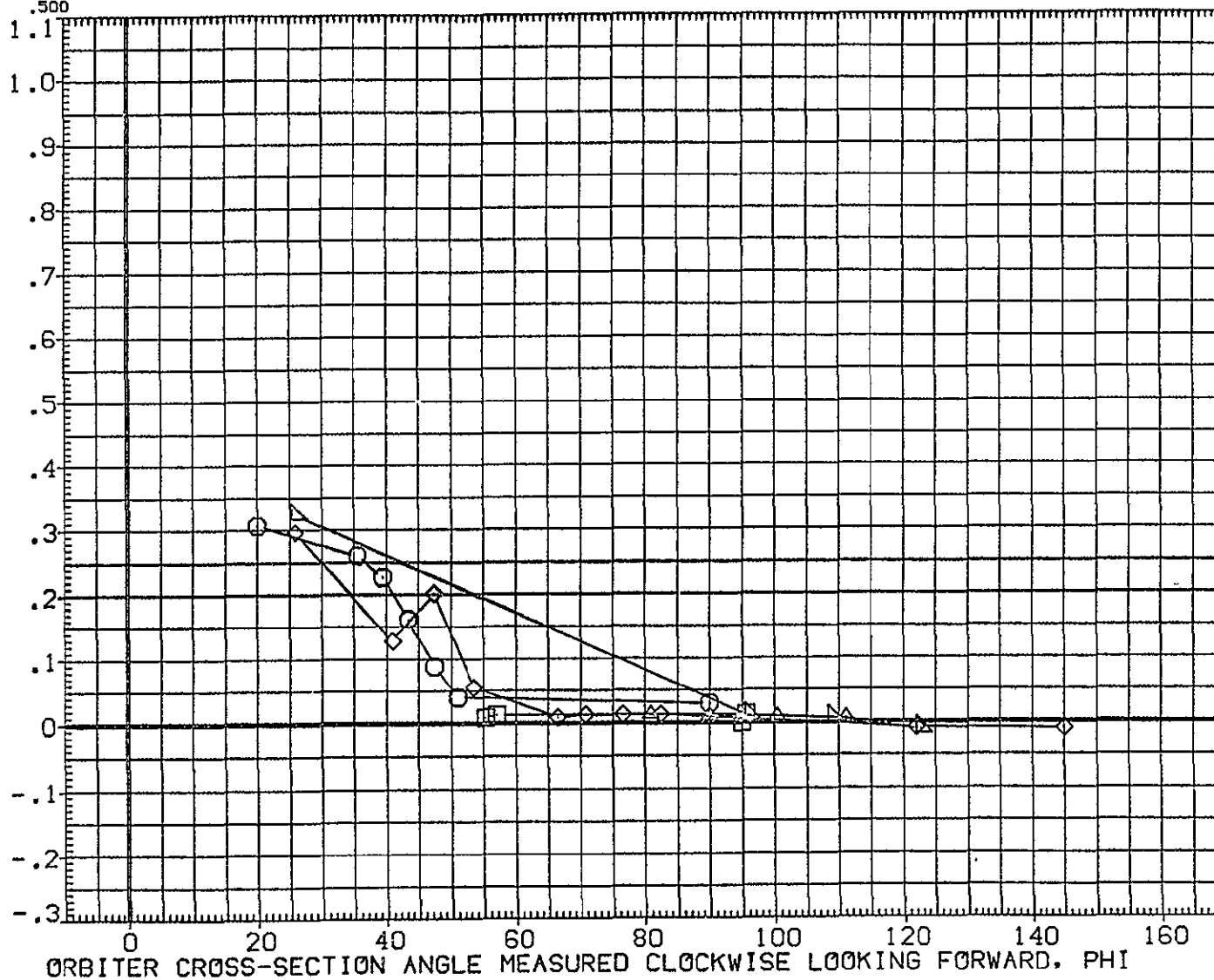


FIG. 12 FUSELAGE CROSS SECTIONS

SYMBOL  
 $\nabla$   $\diamond$   $\square$   $\circ$ 

X/L	MACH	ALPHA
.600	7.320	29.494
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

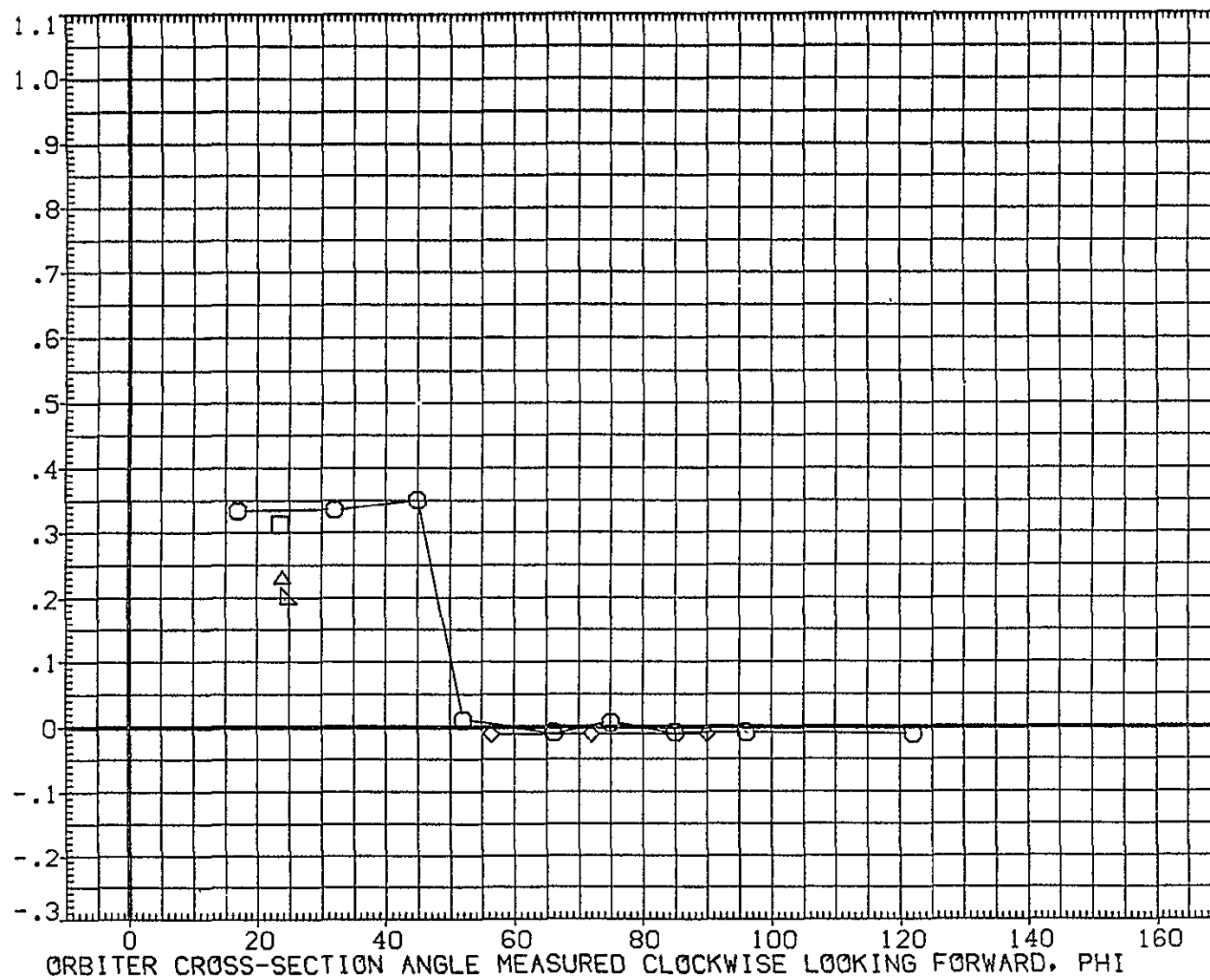


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (PEZJ03)

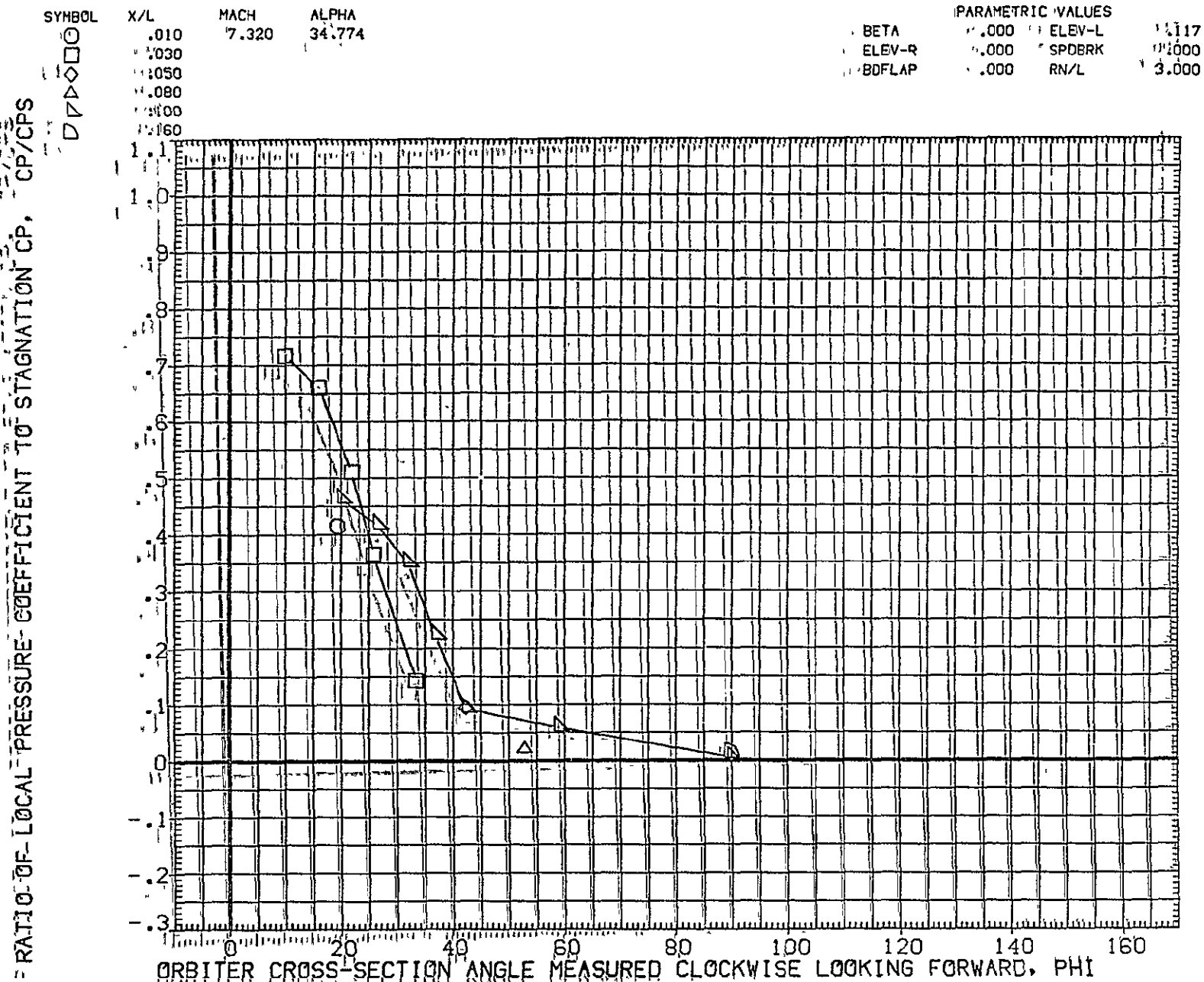


FIG. 12 FUSELAGE CROSS SECTIONS

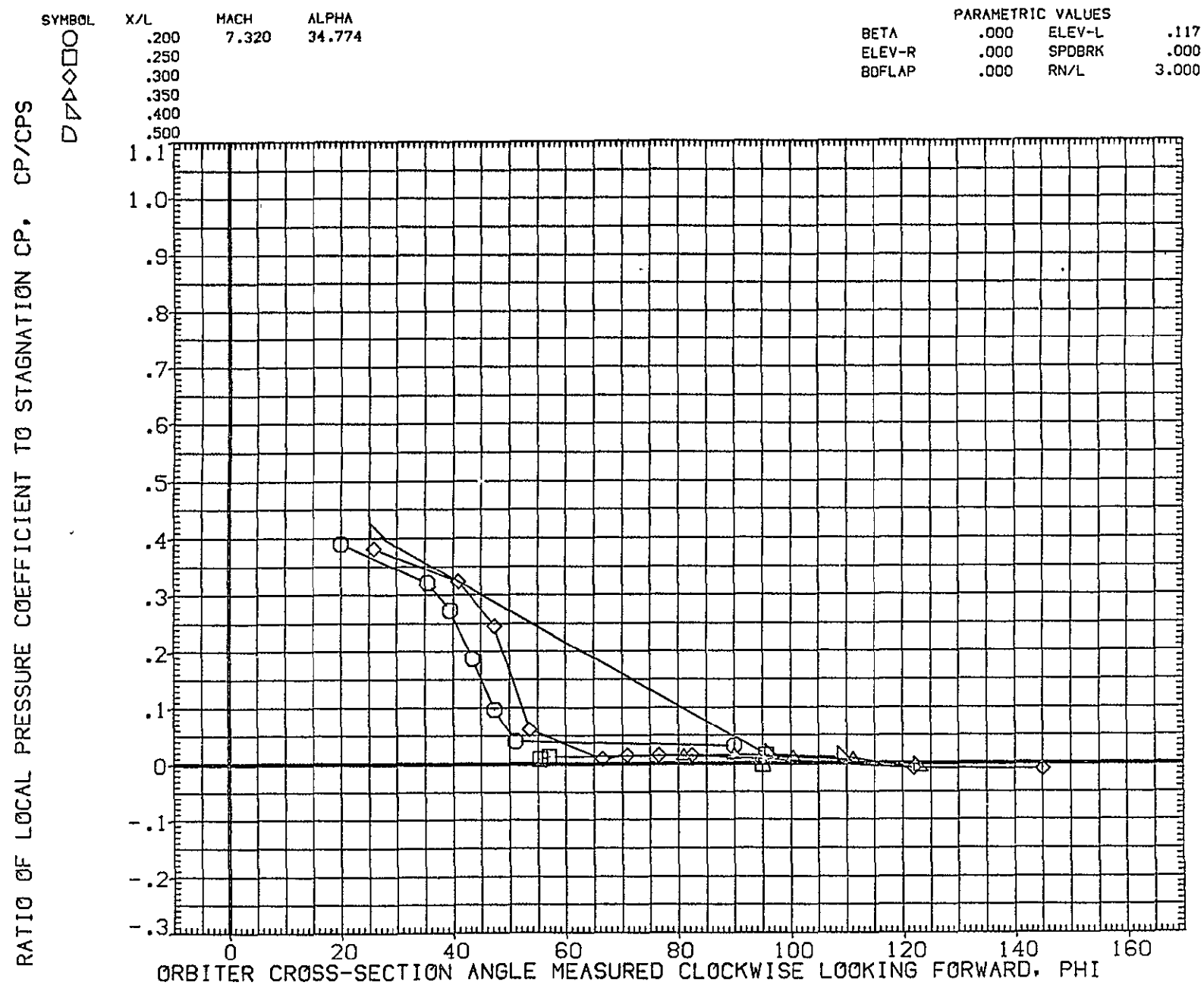


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

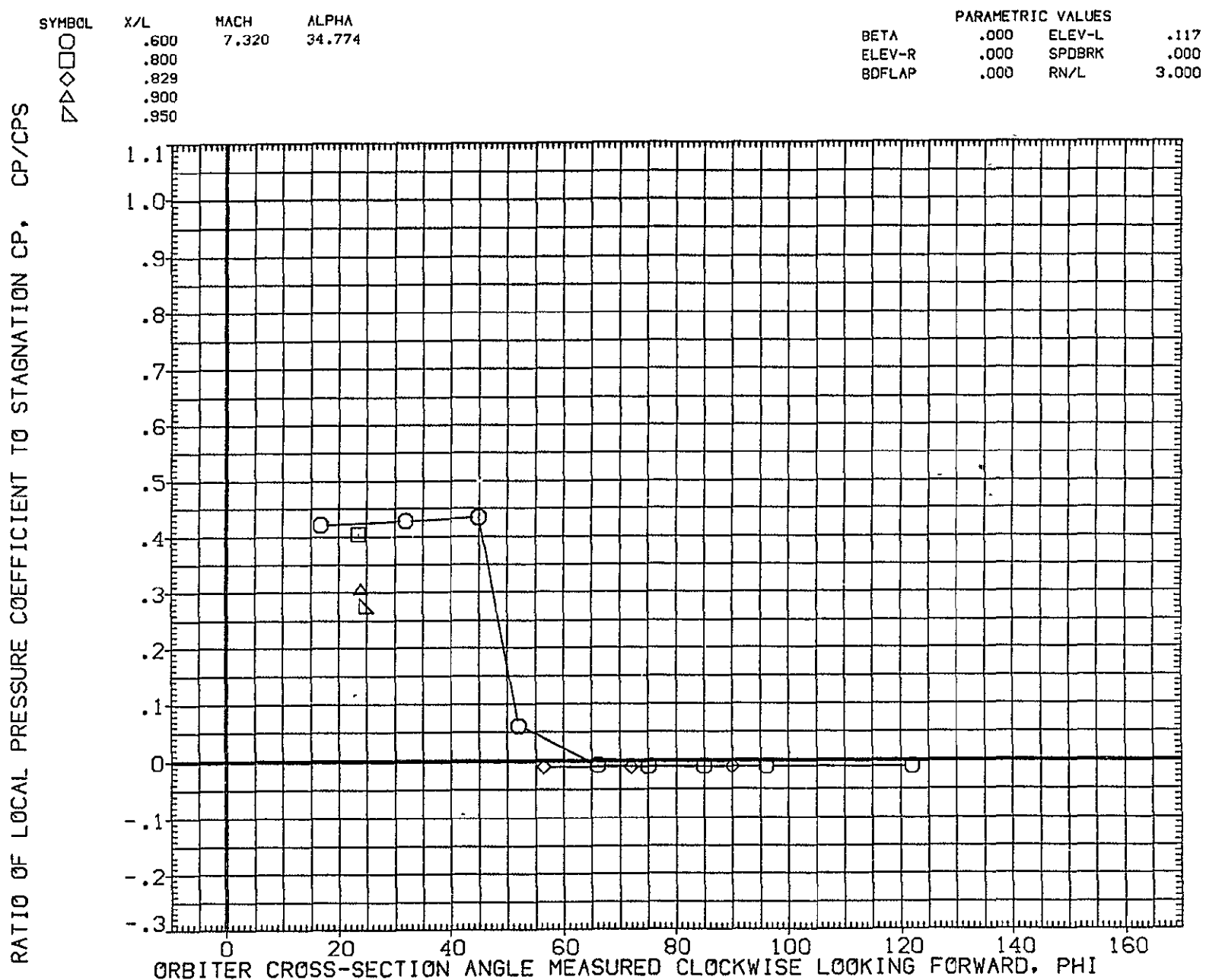


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

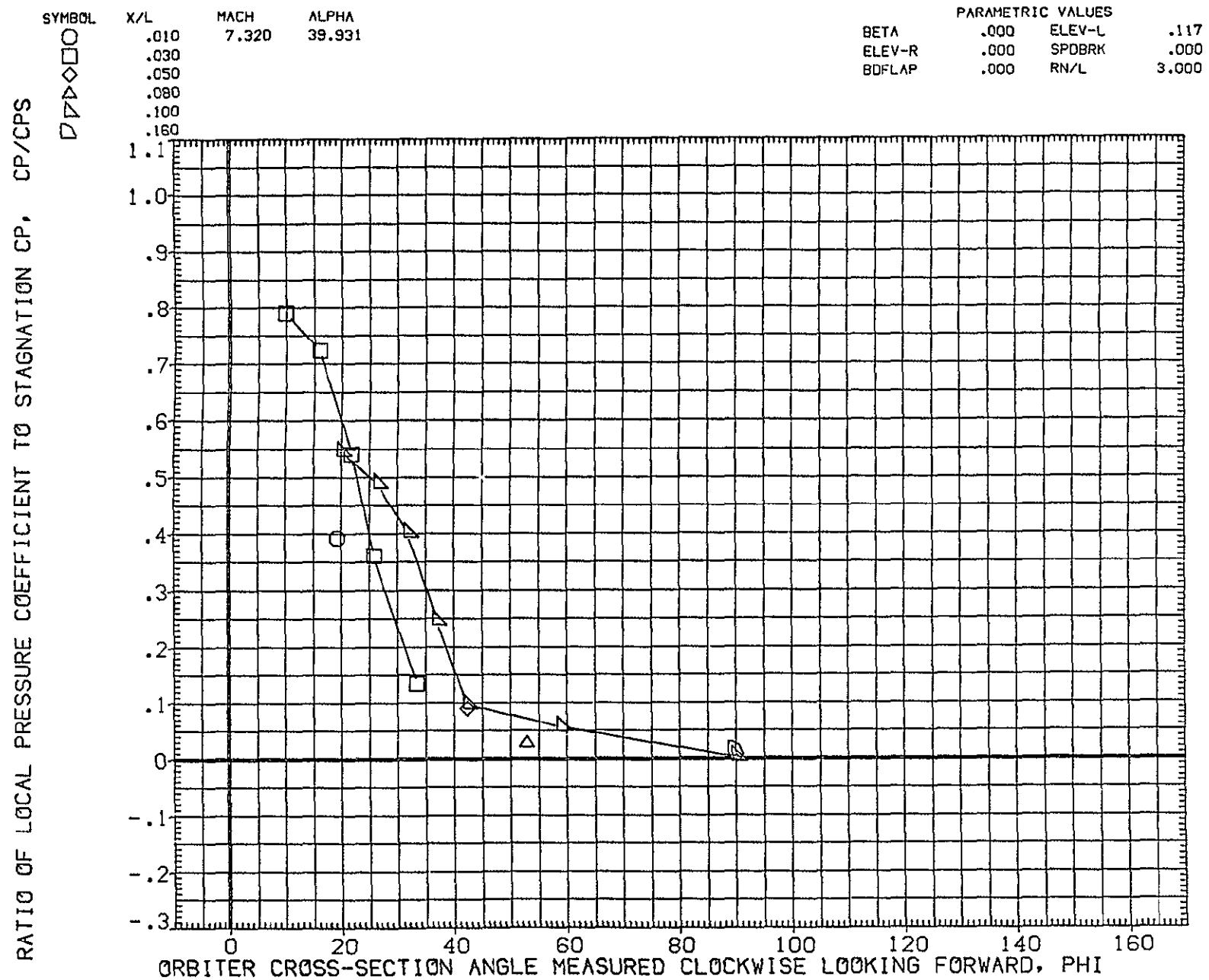


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

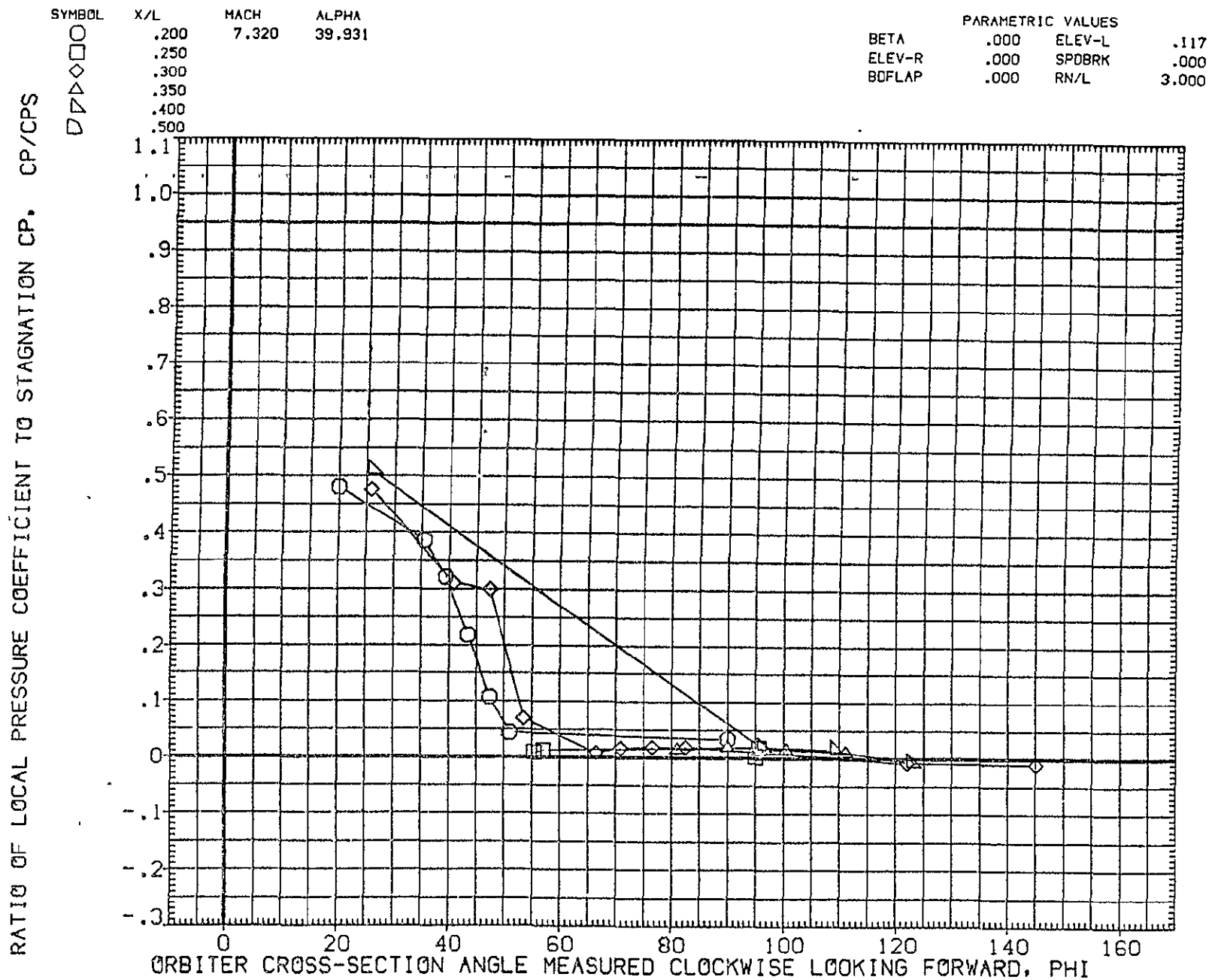


FIG. 12 FUSELAGE CROSS SECTIONS

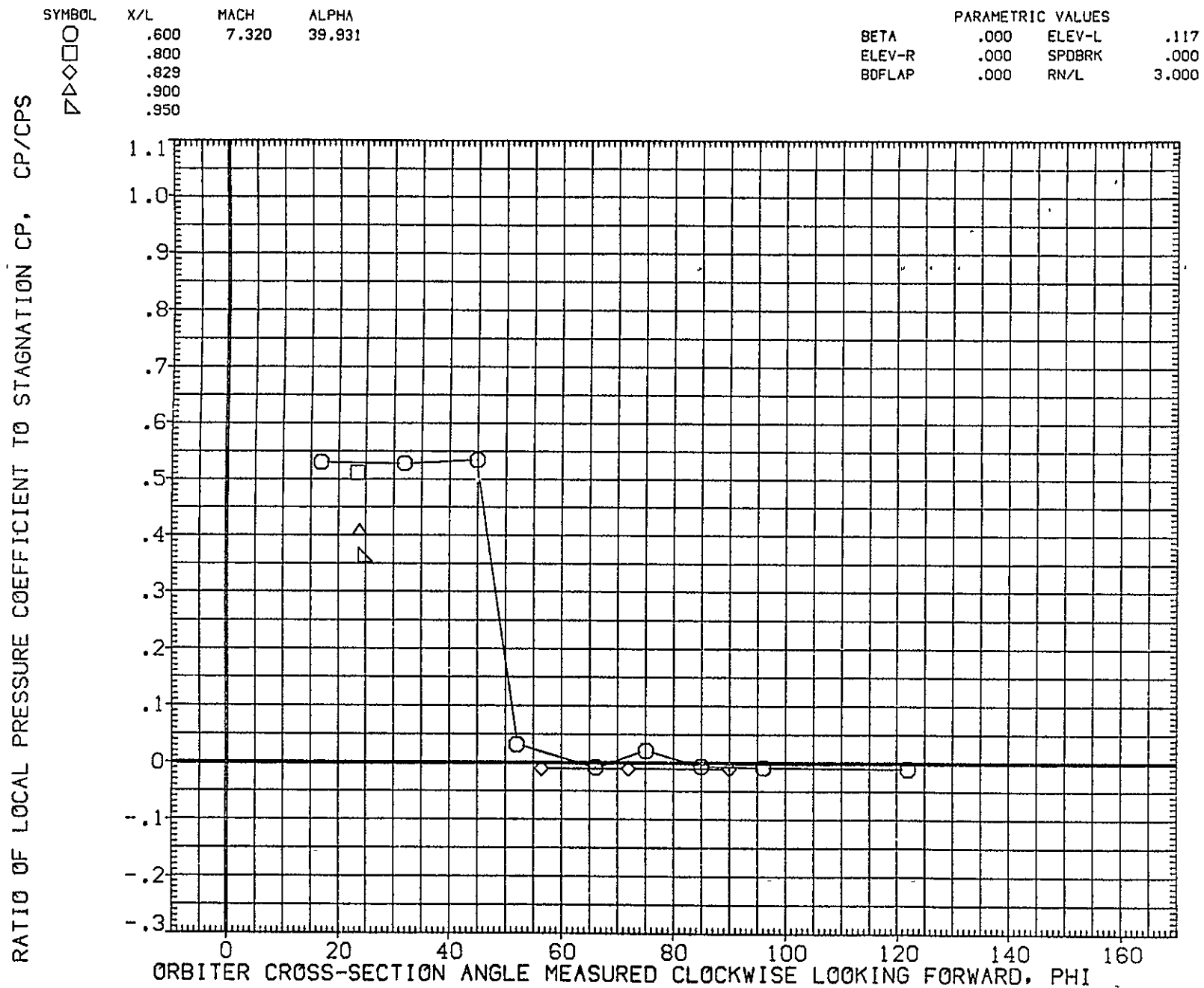


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

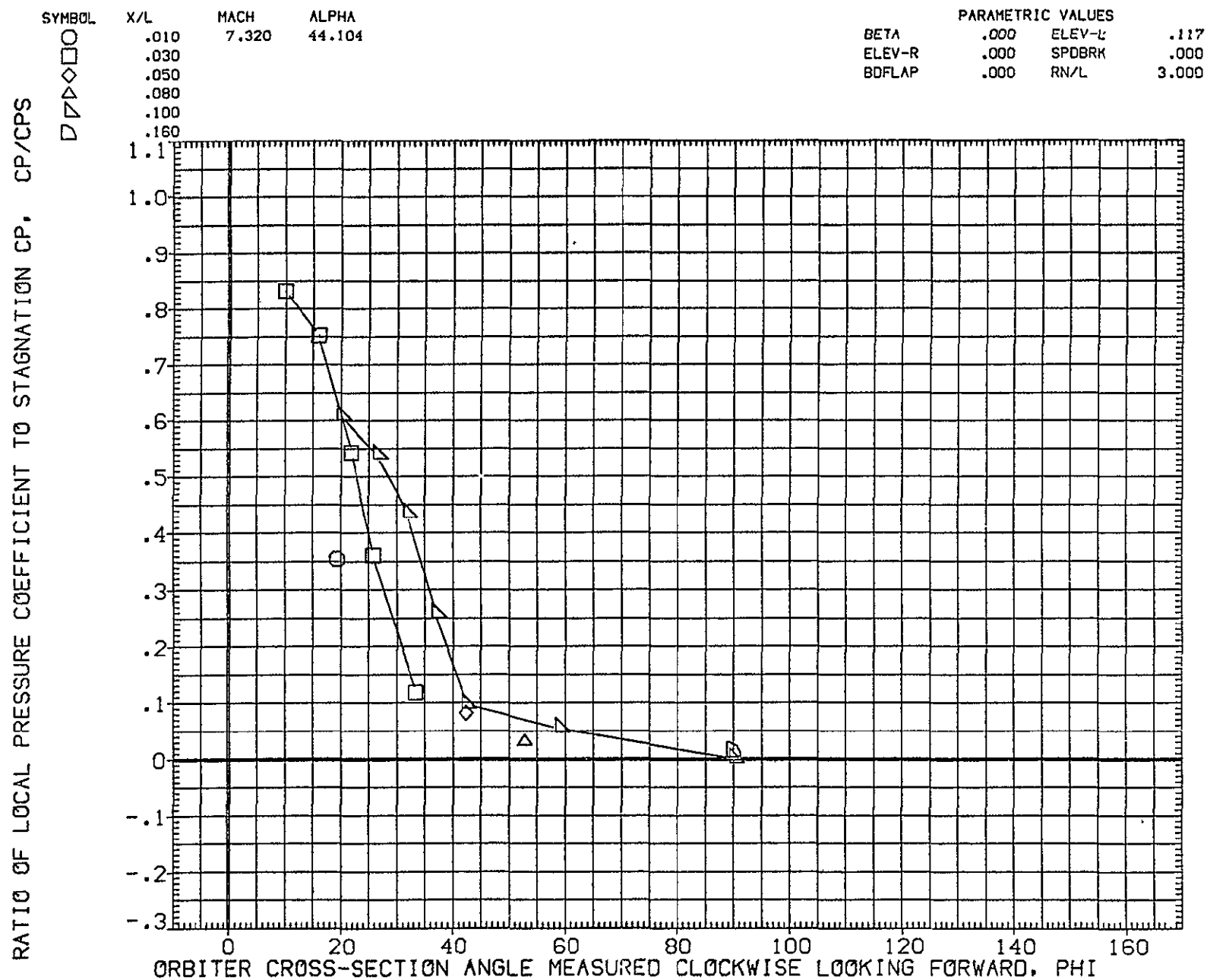


FIG. 12 FUSELAGE CROSS SECTIONS

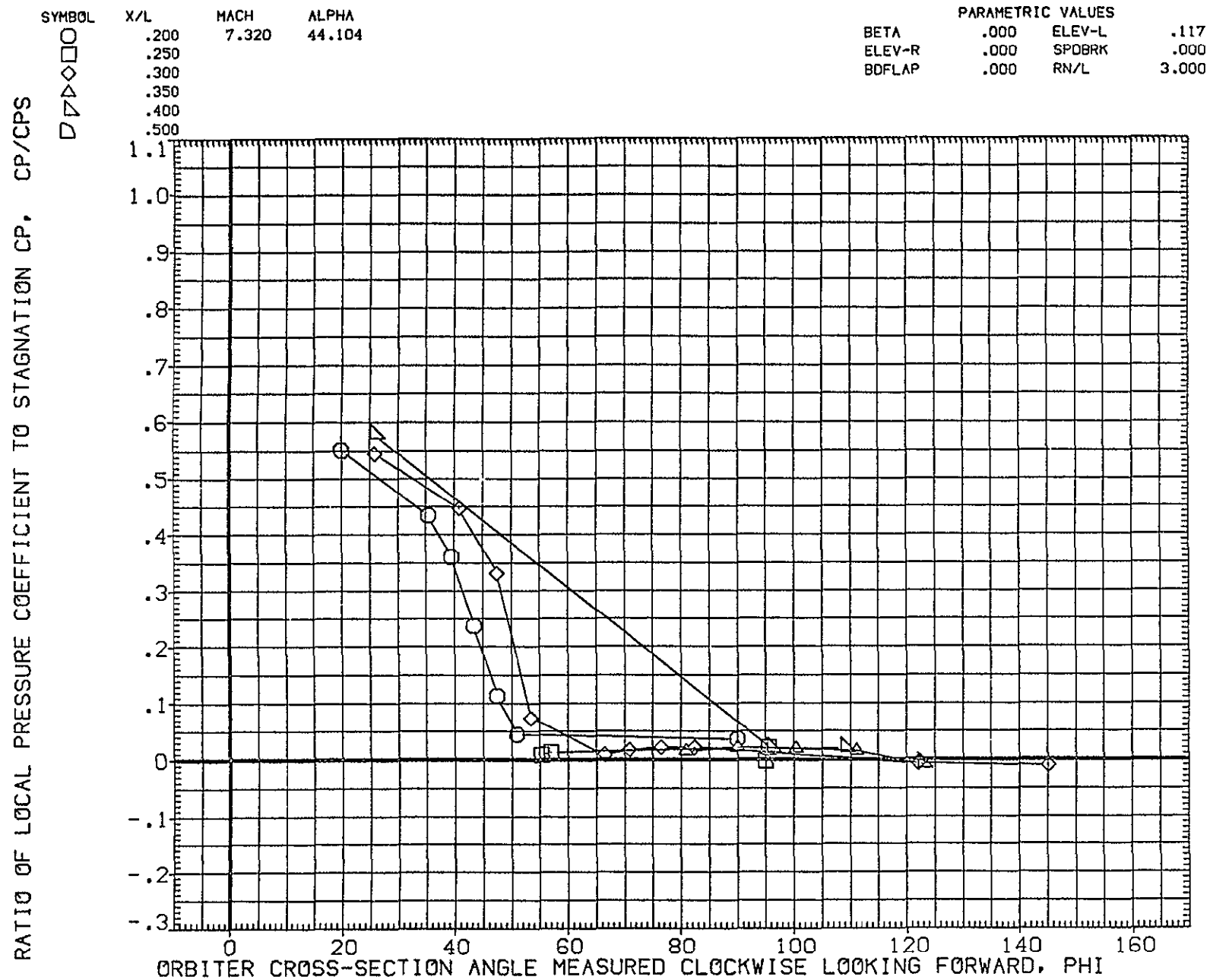


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ03)

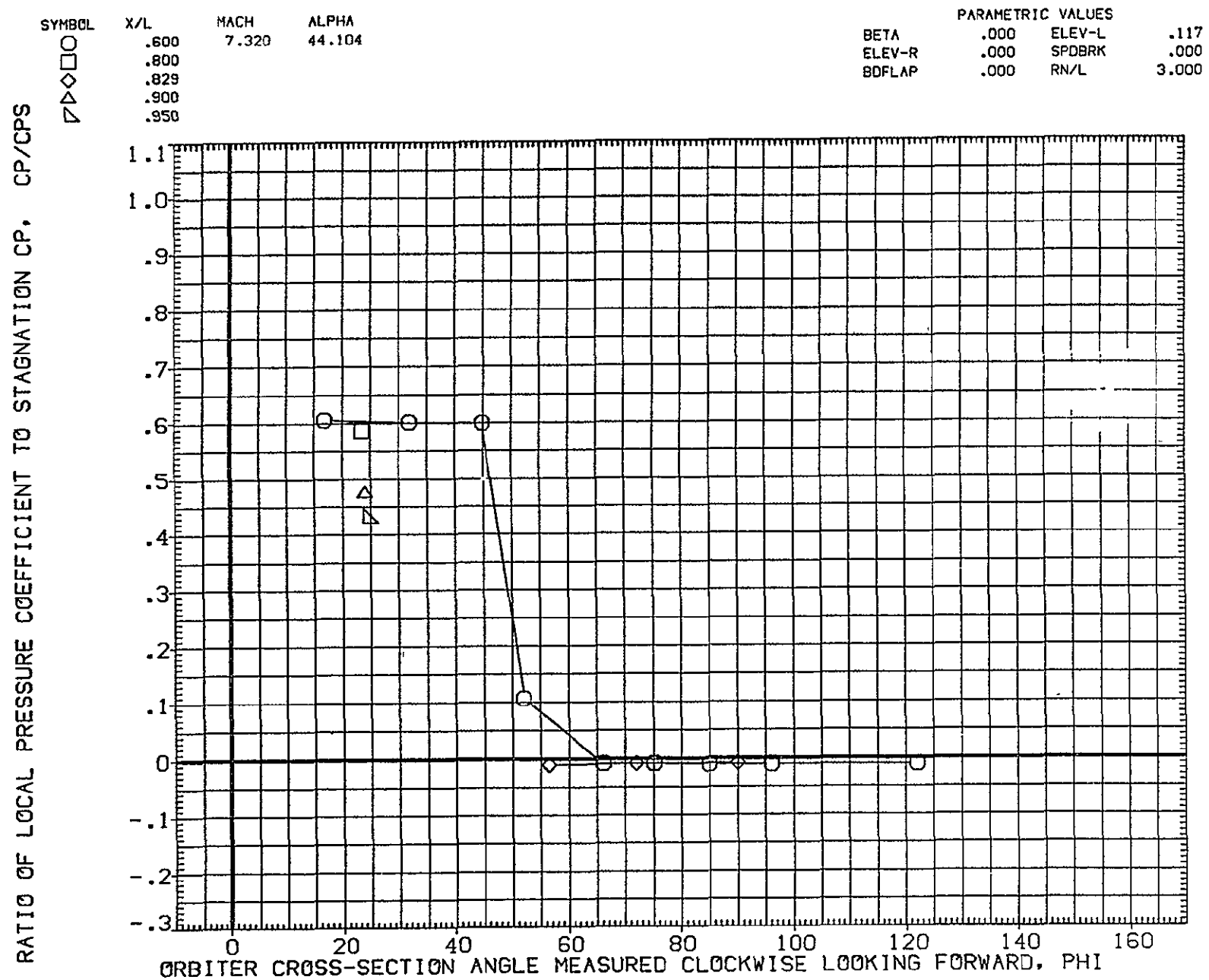


FIG. 12 FUSELAGE CROSS SECTIONS

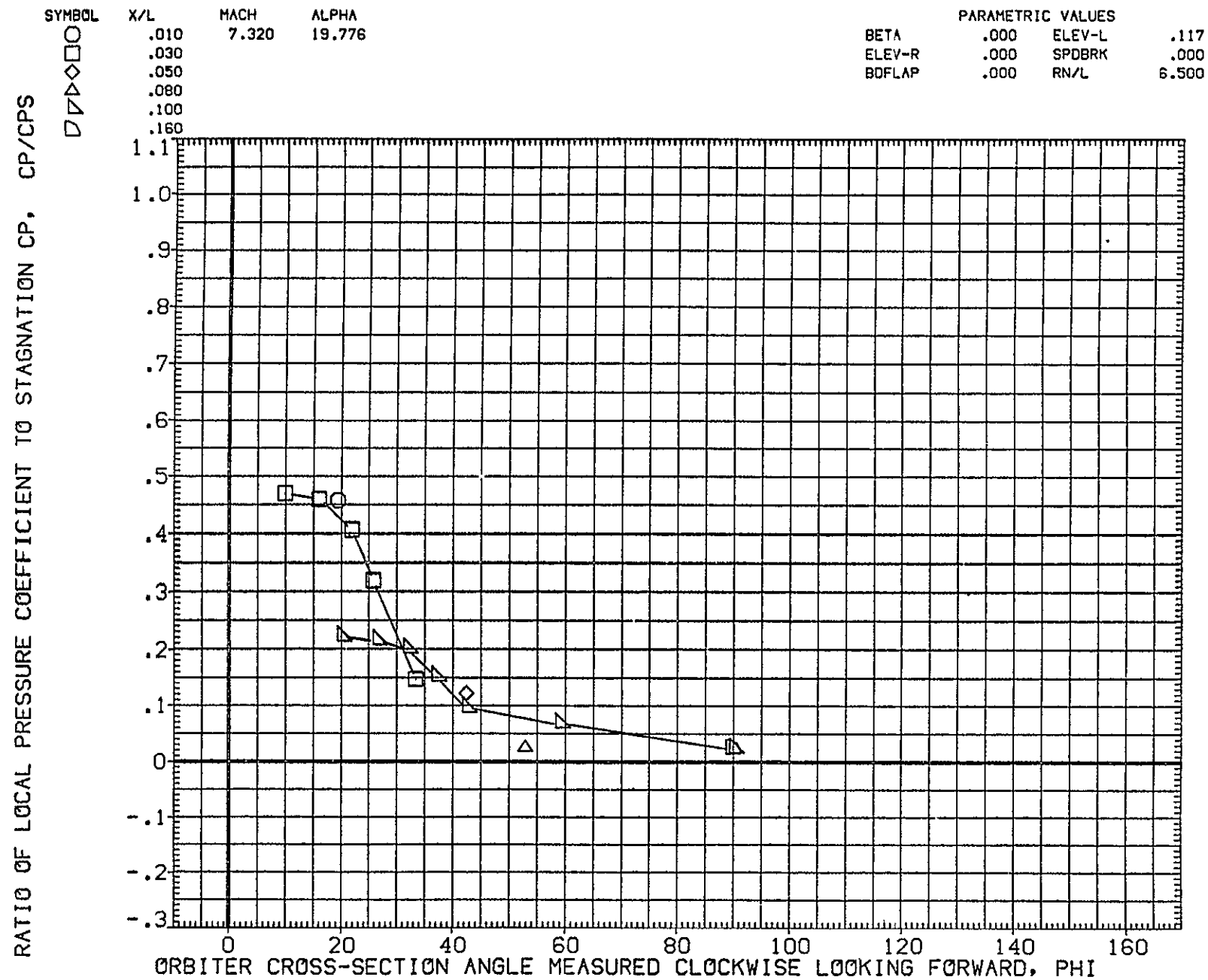


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (CEZJO4)

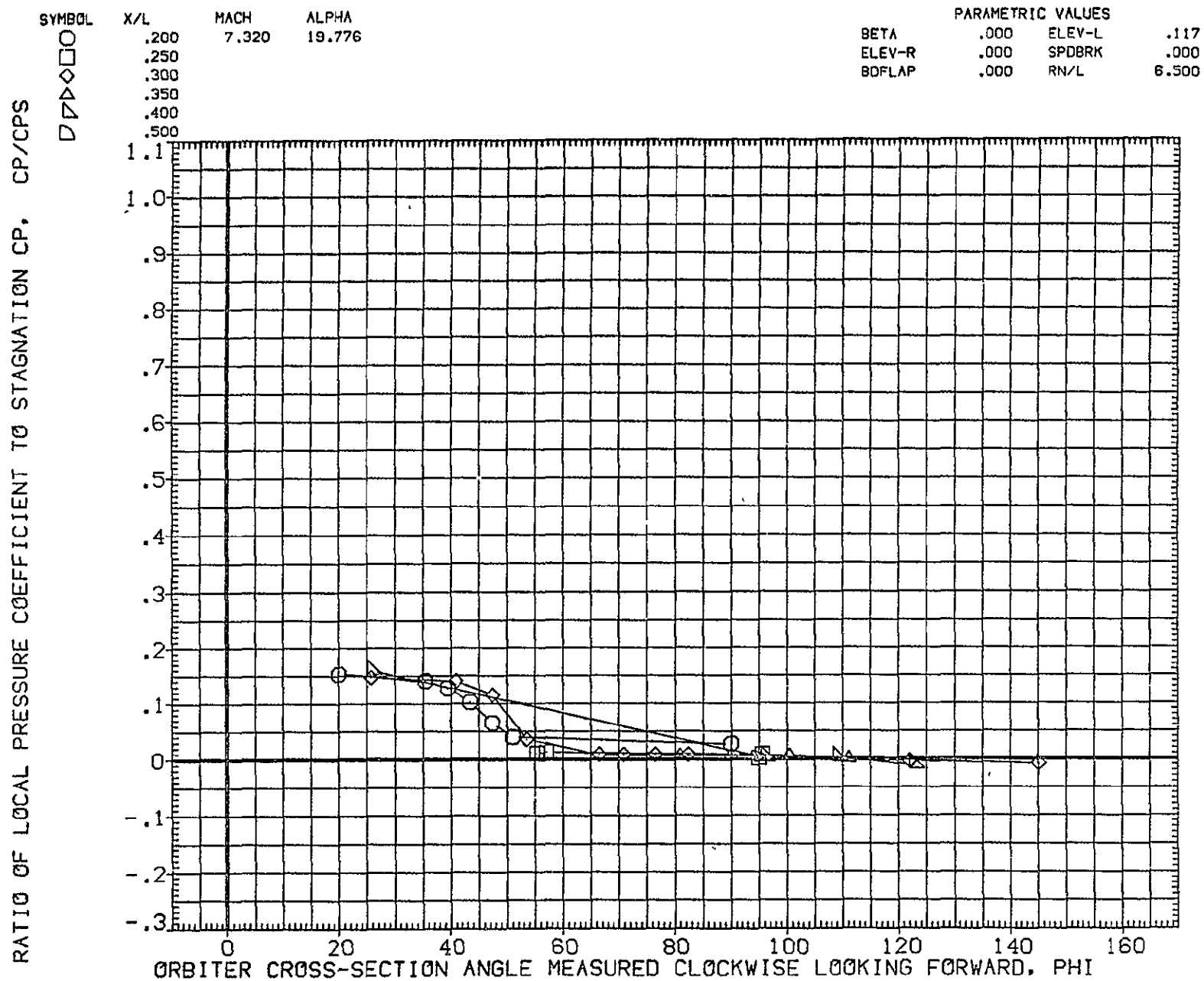


FIG. 12 FUSELAGE CROSS SECTIONS

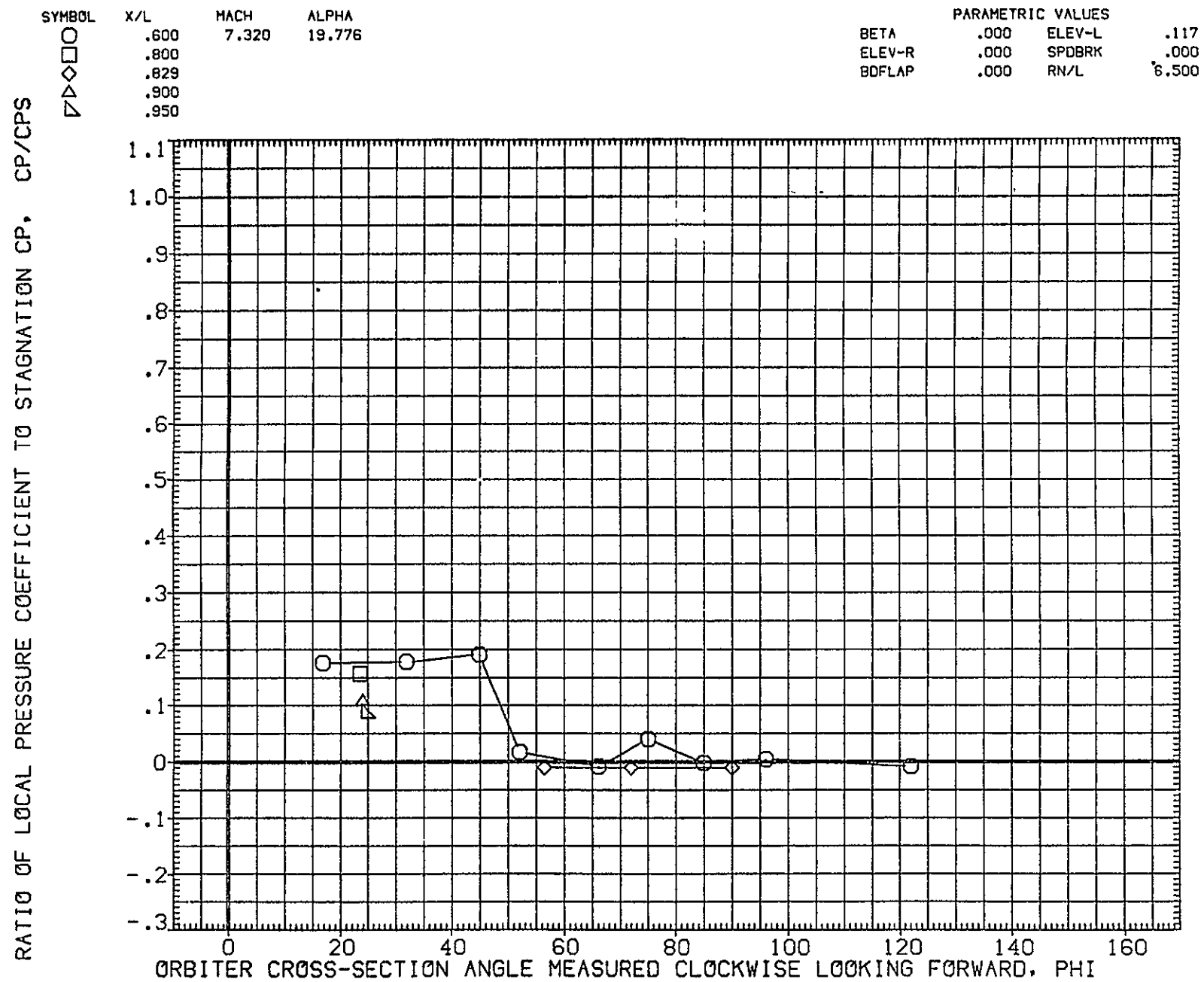


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

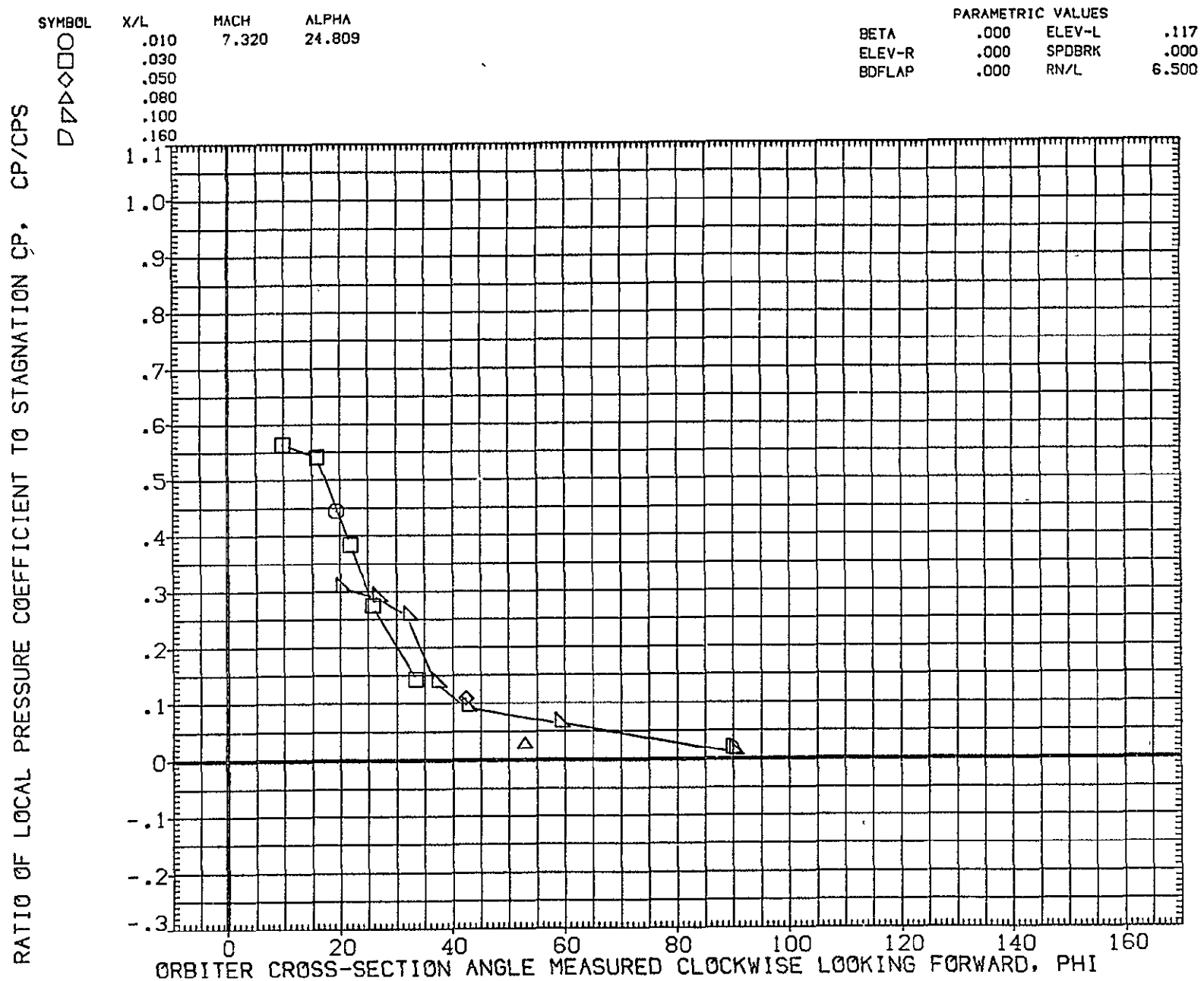


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

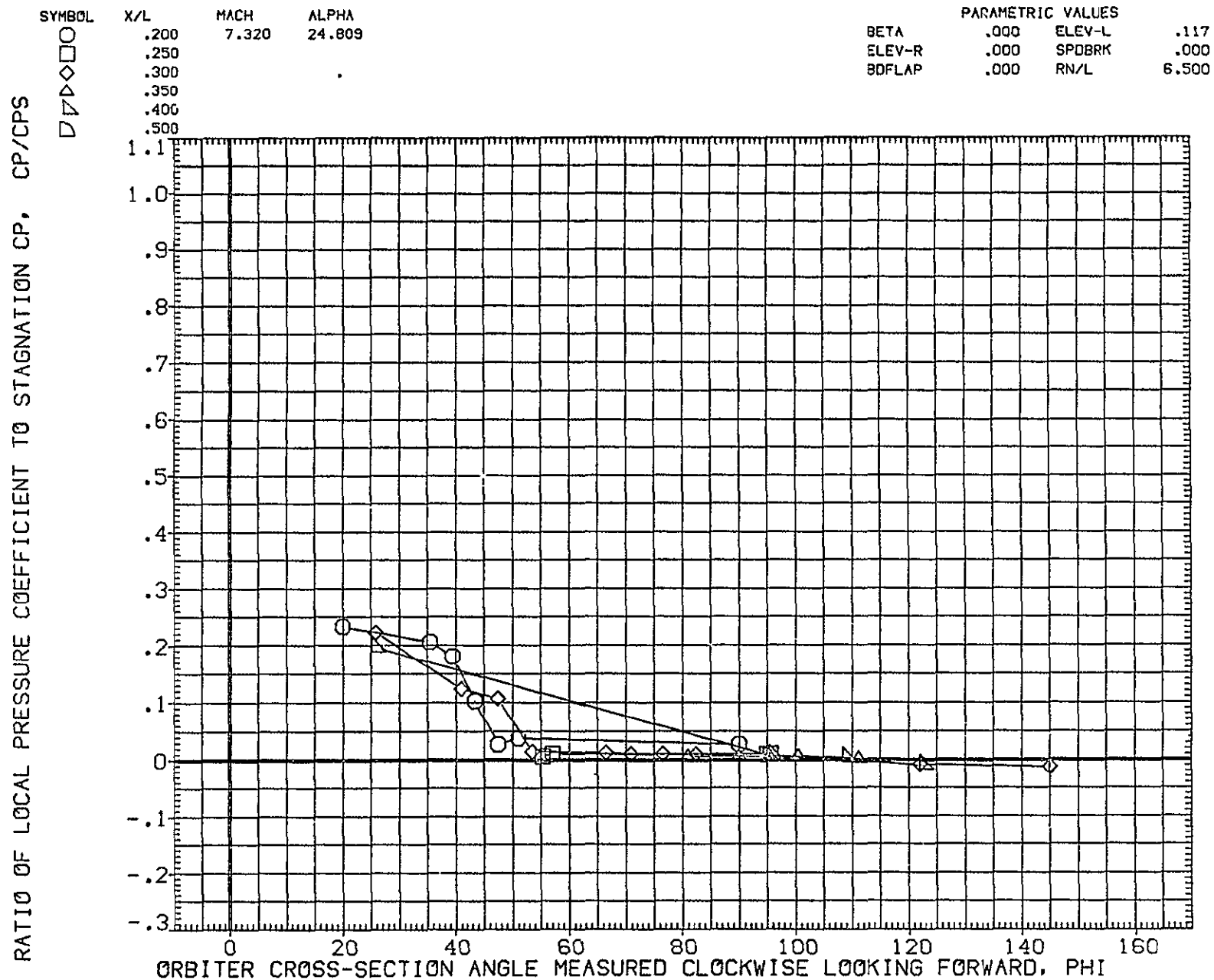


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

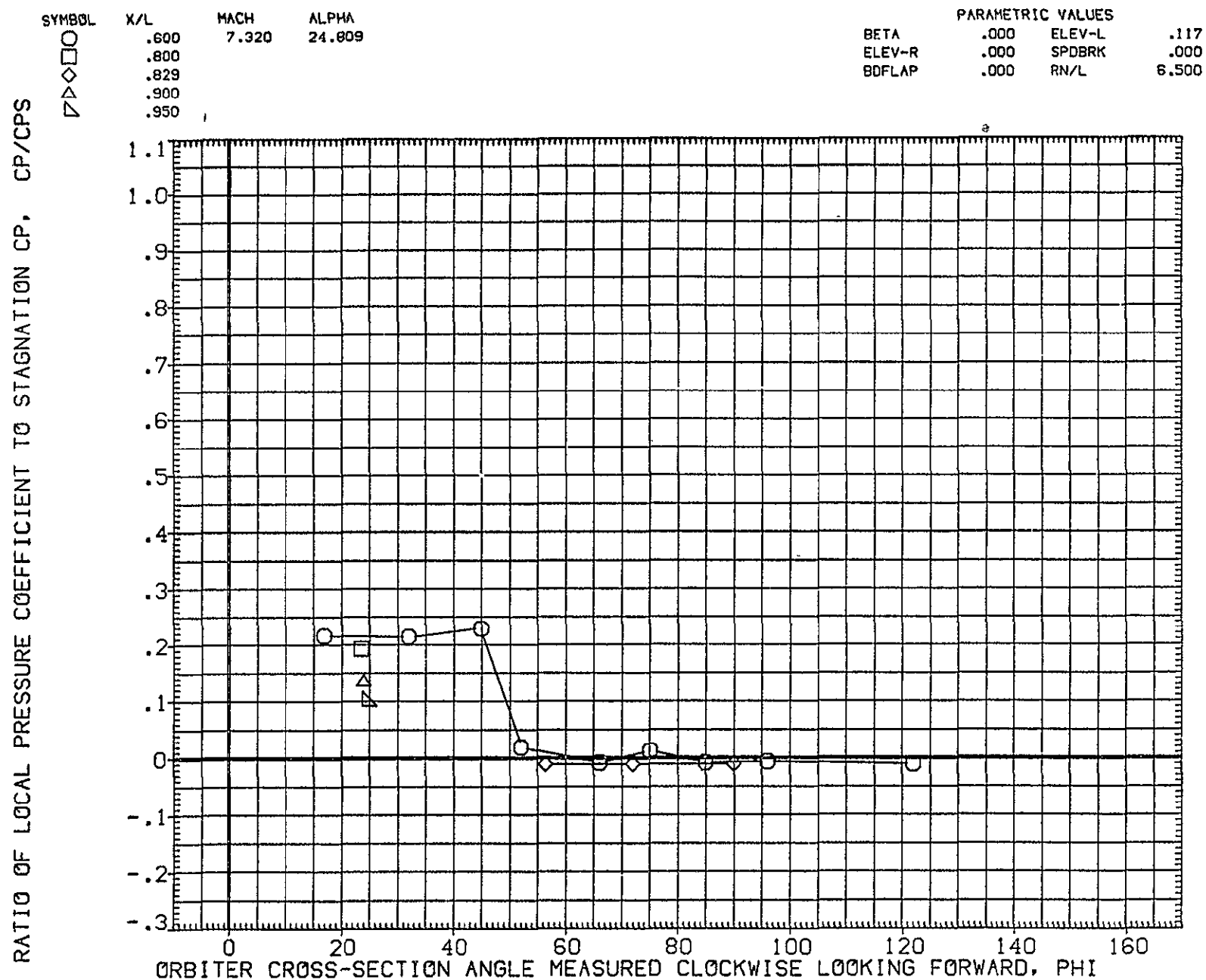


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

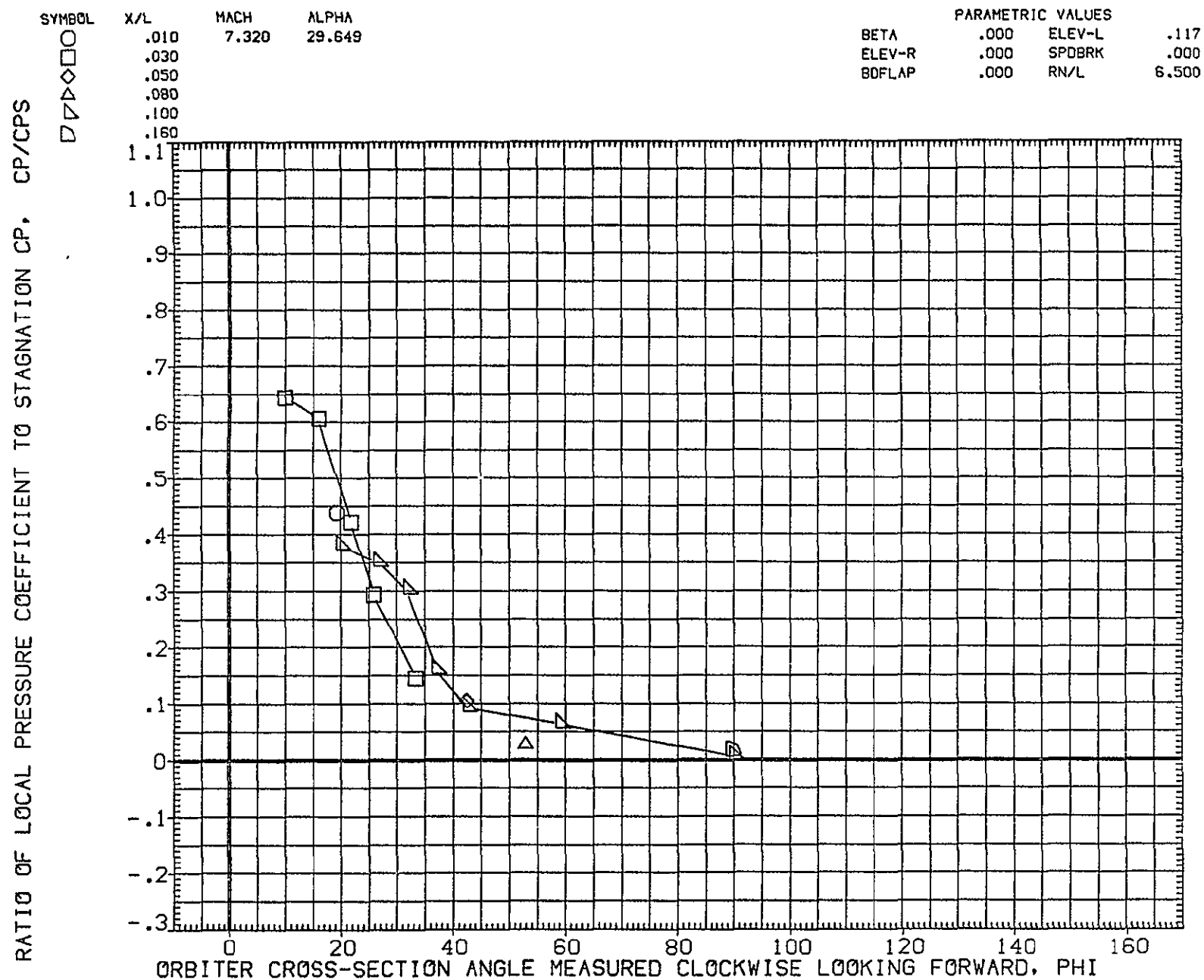


FIG. 12 FUSELAGE CROSS SECTIONS



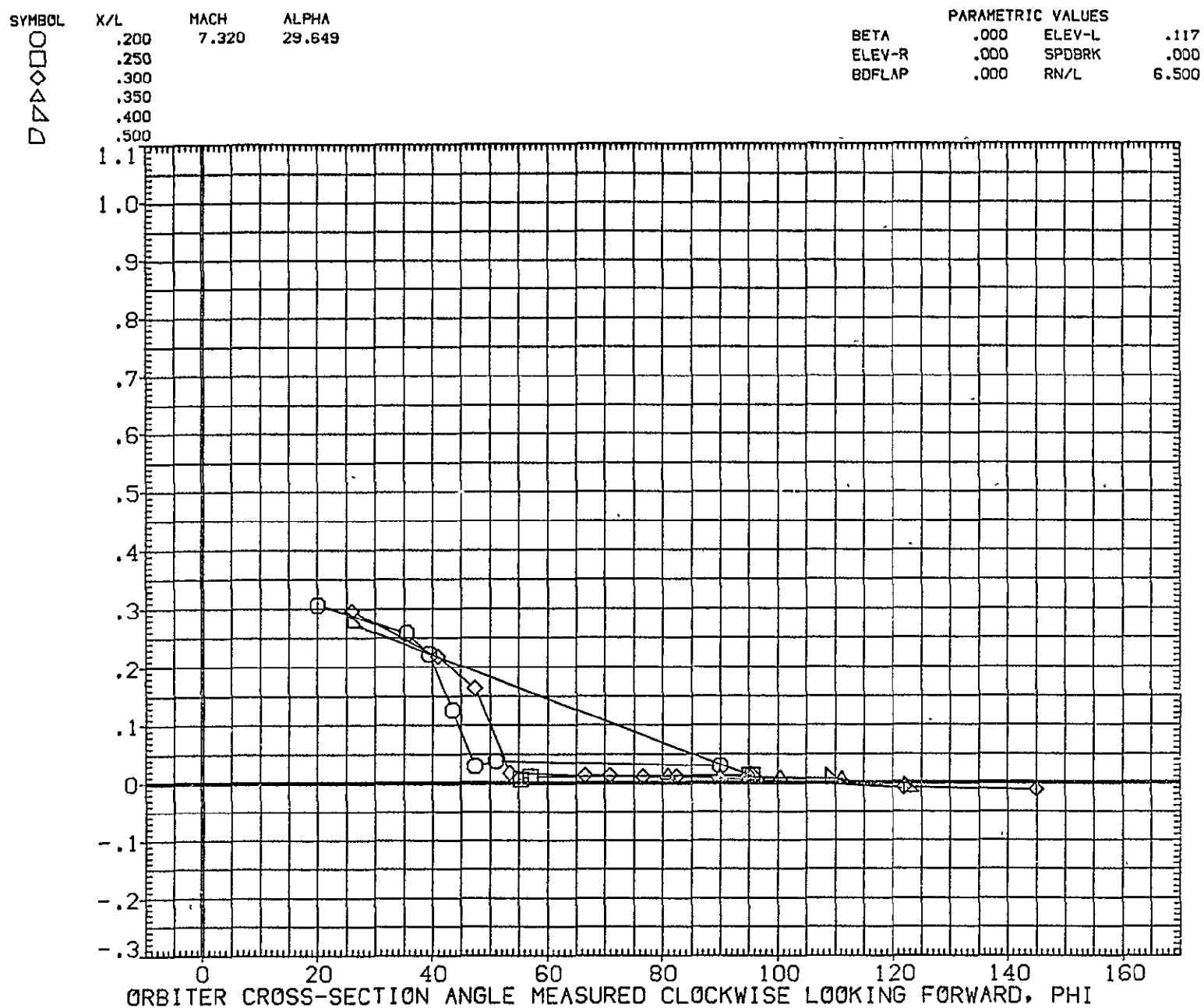
RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CP<sub>S</sub>

FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (CEZJ04)

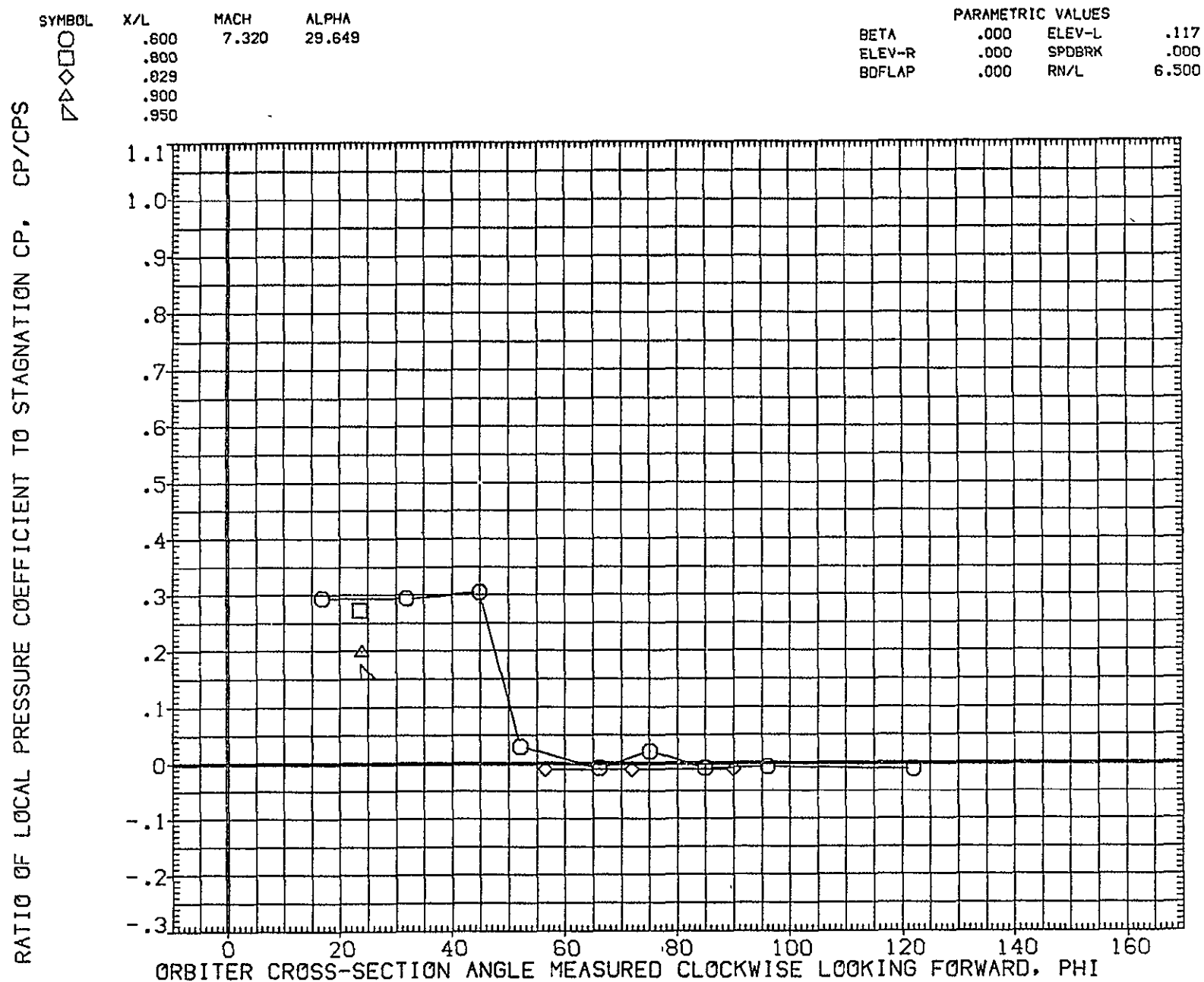


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

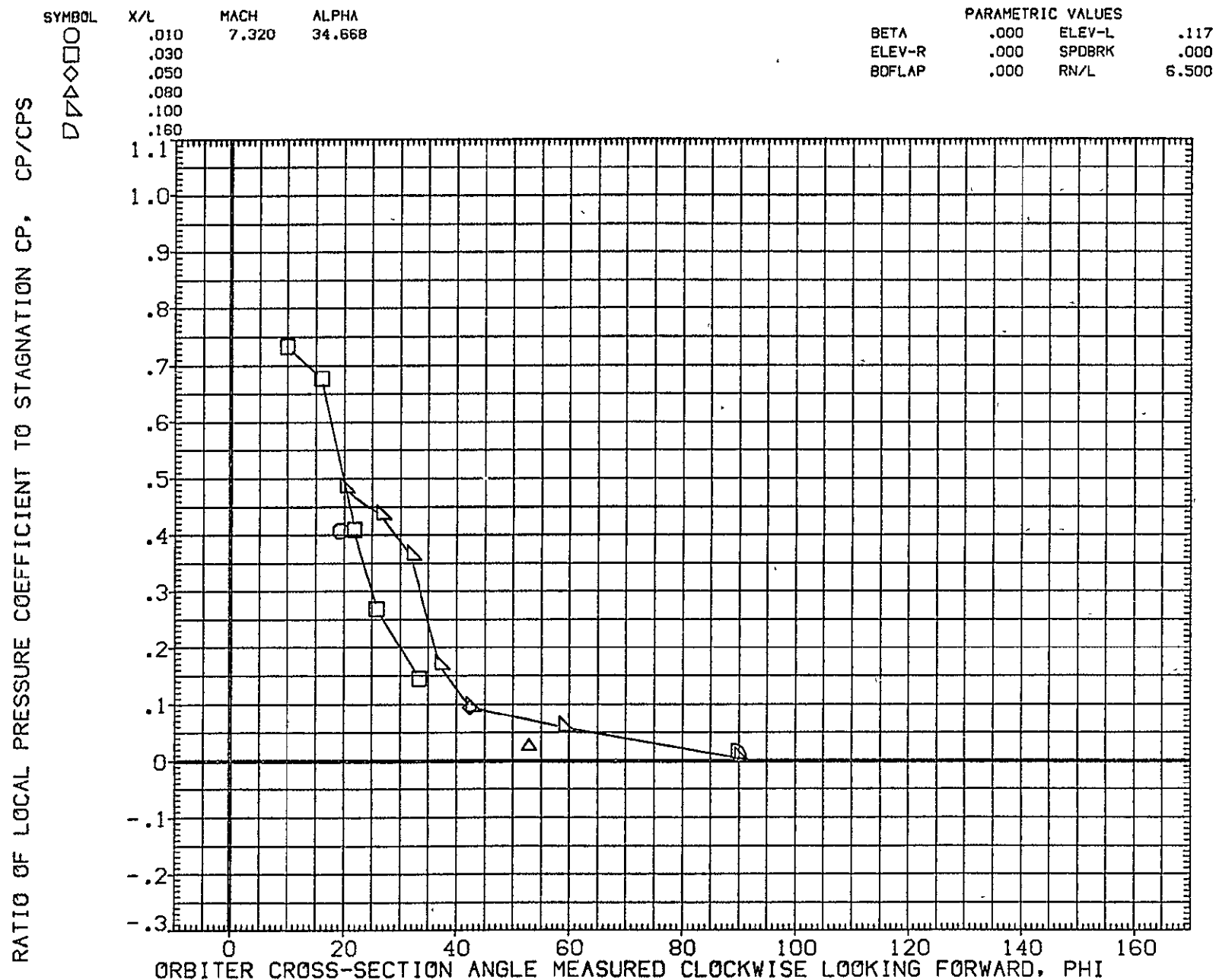


FIG. 12 FUSELAGE CROSS SECTIONS

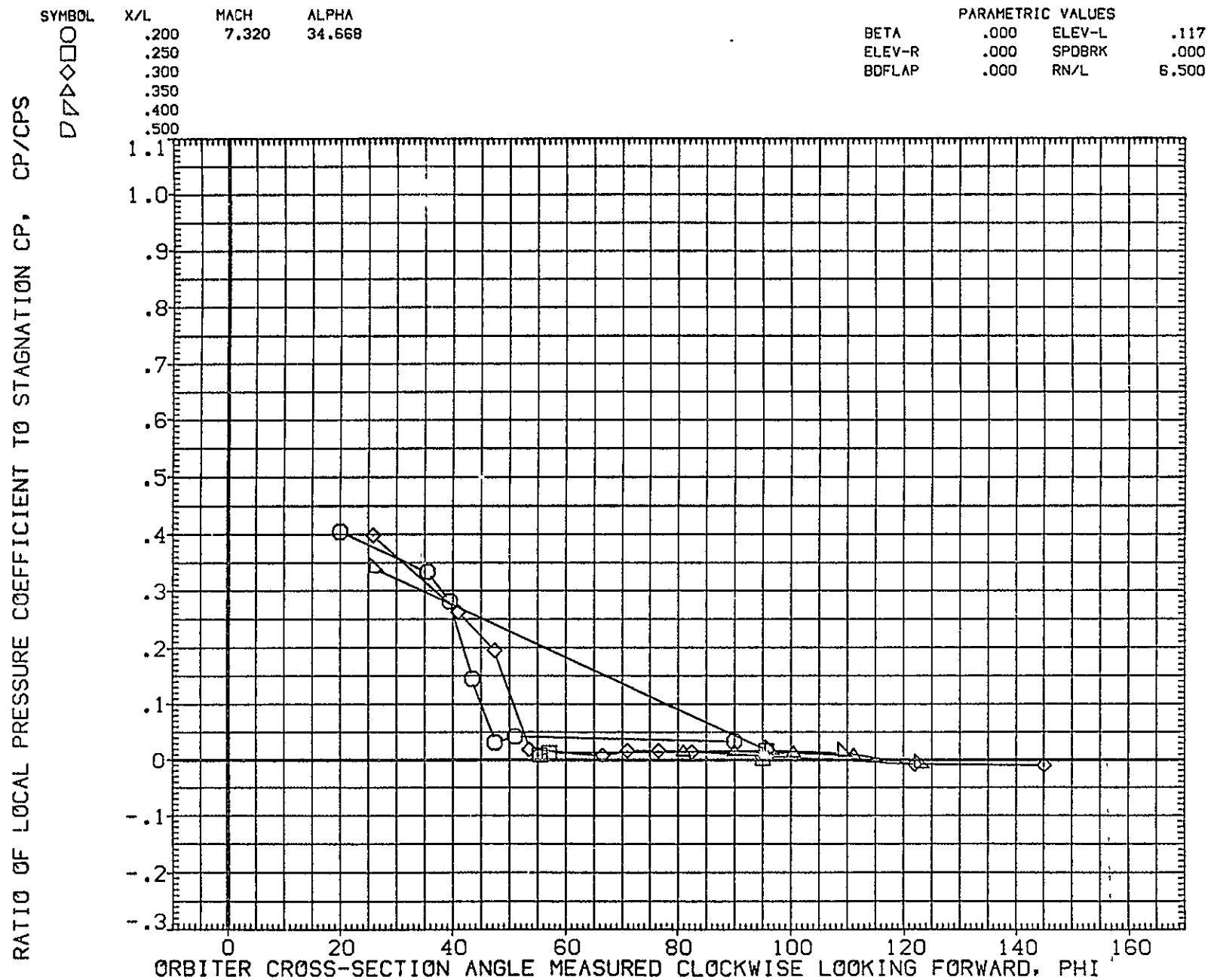


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

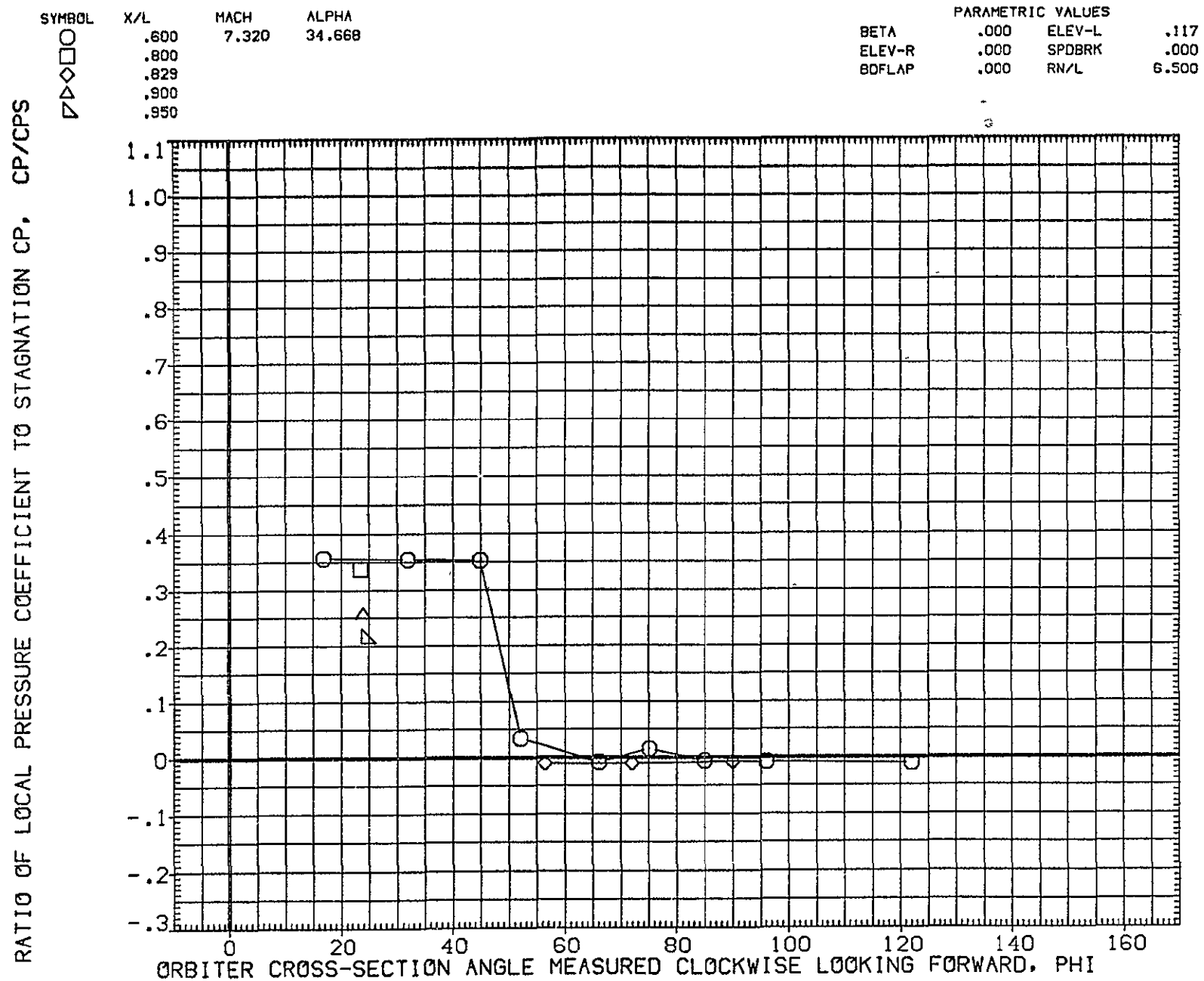


FIG. 12 FUSELAGE CROSS SECTIONS

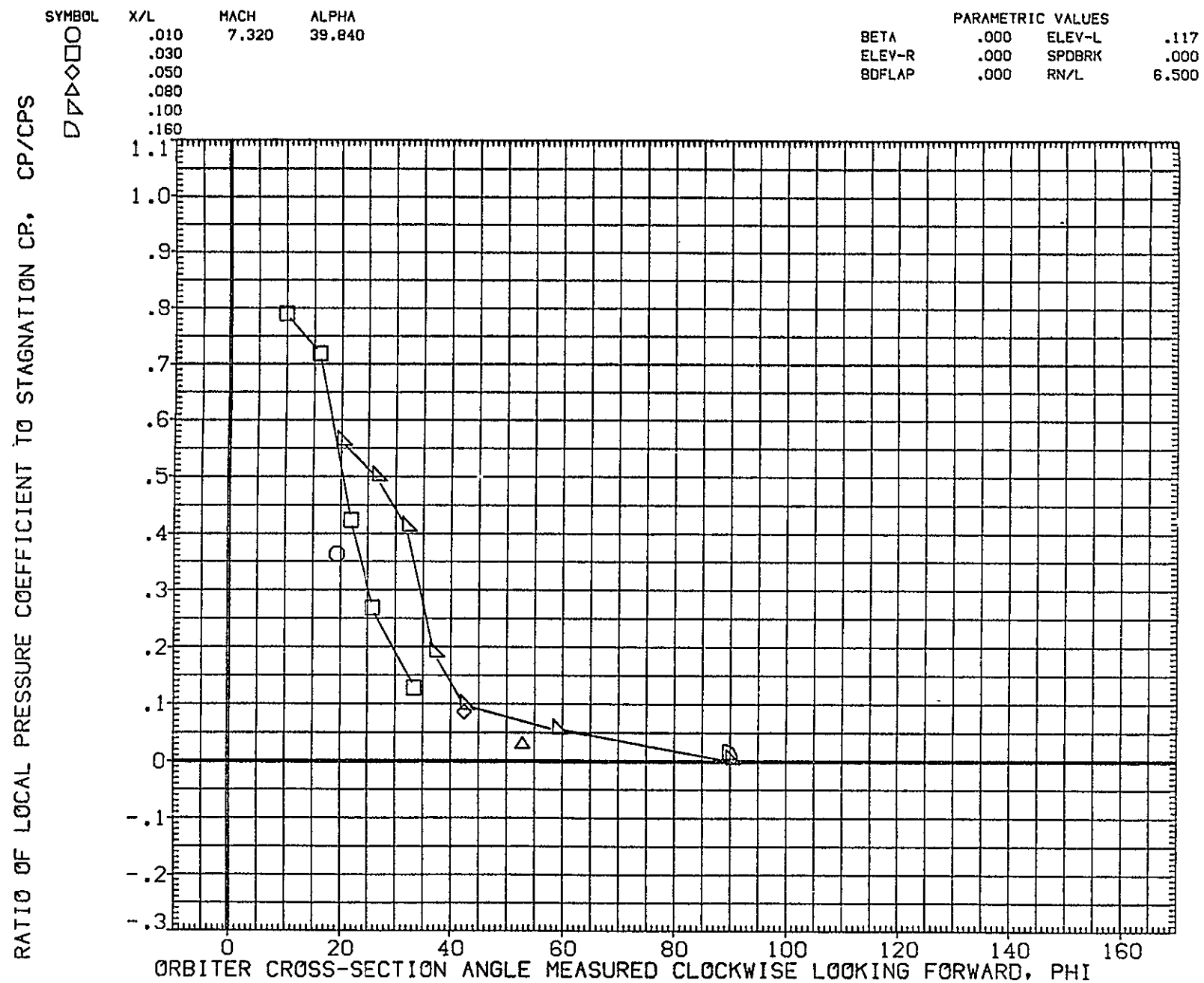


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

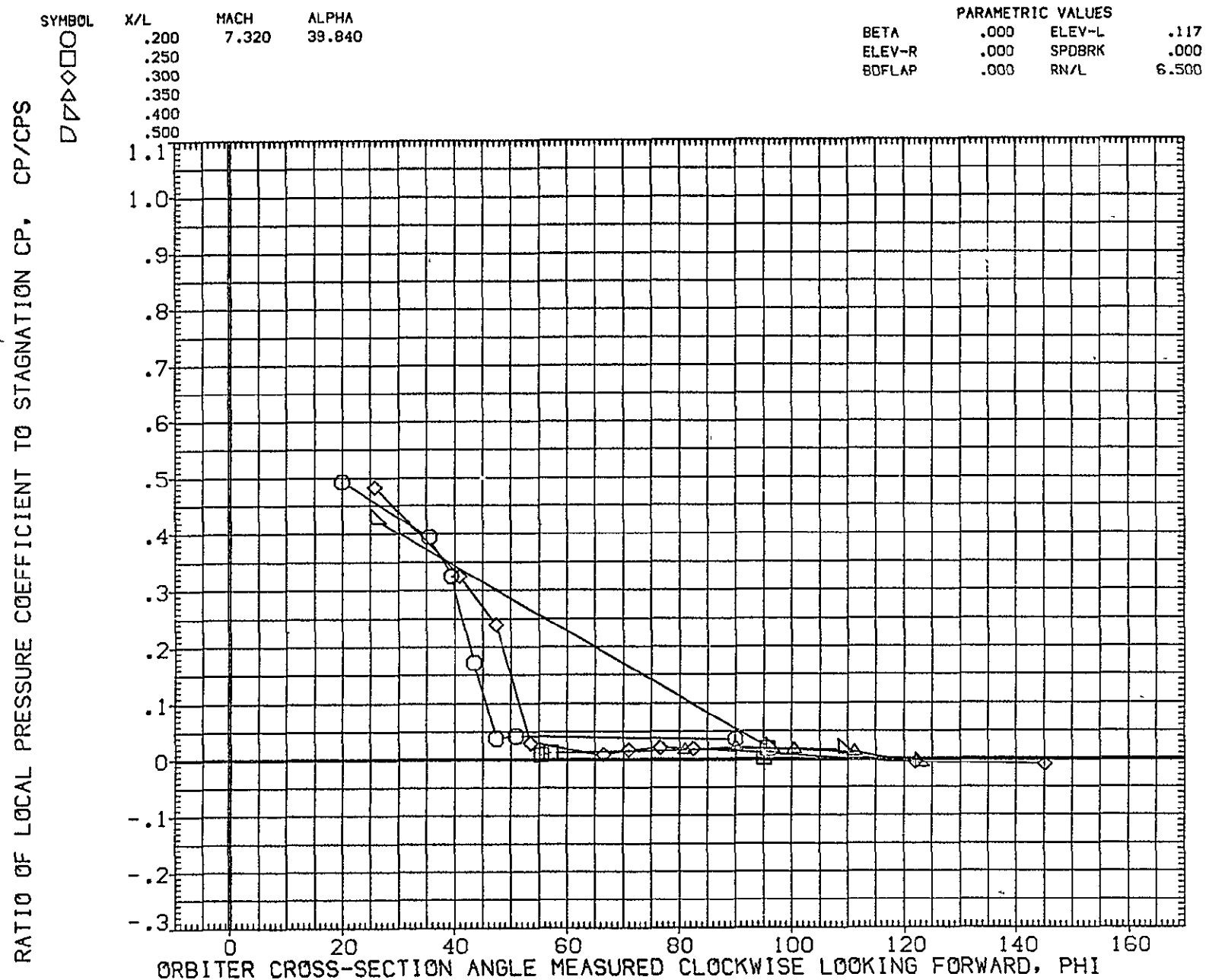


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

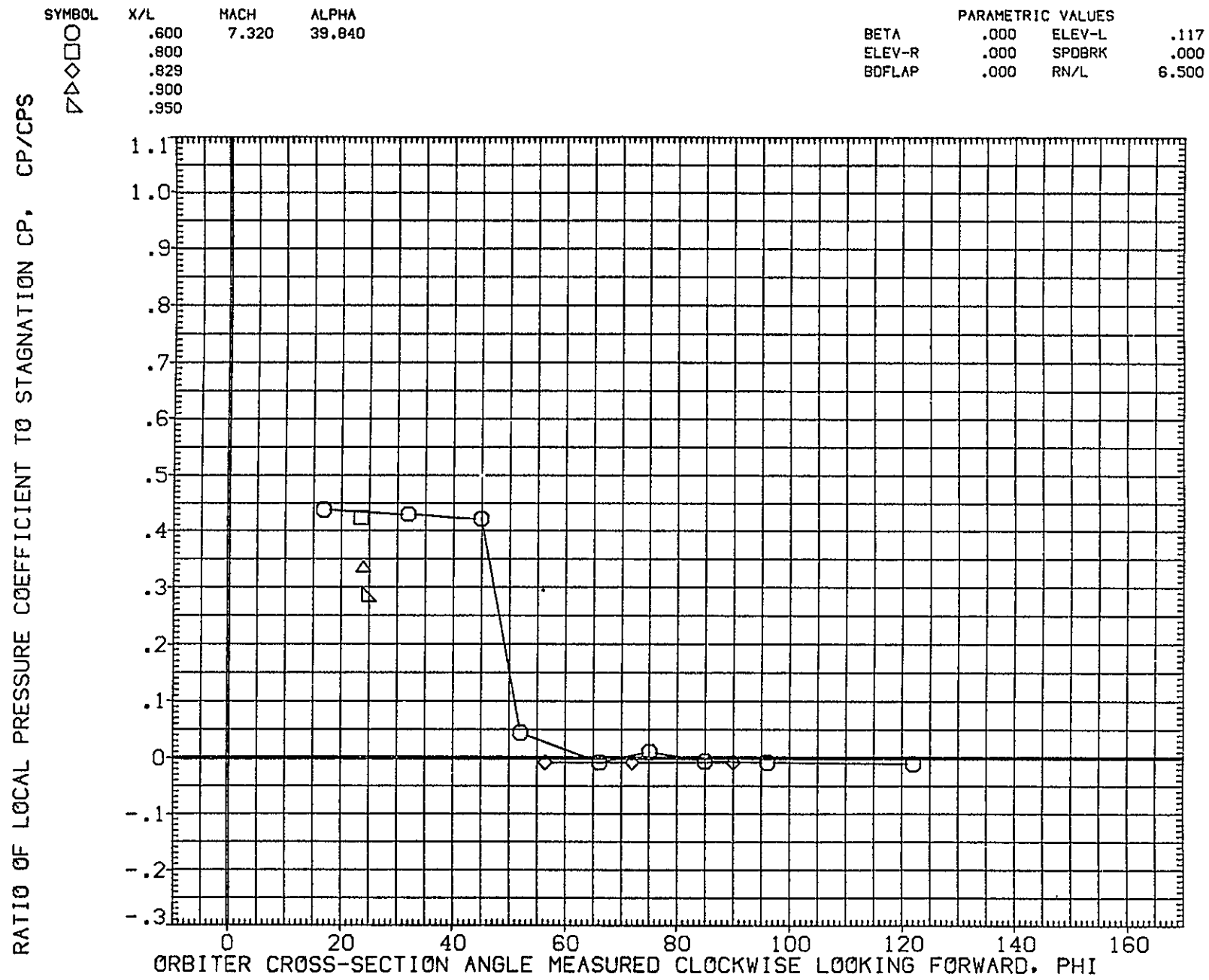


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

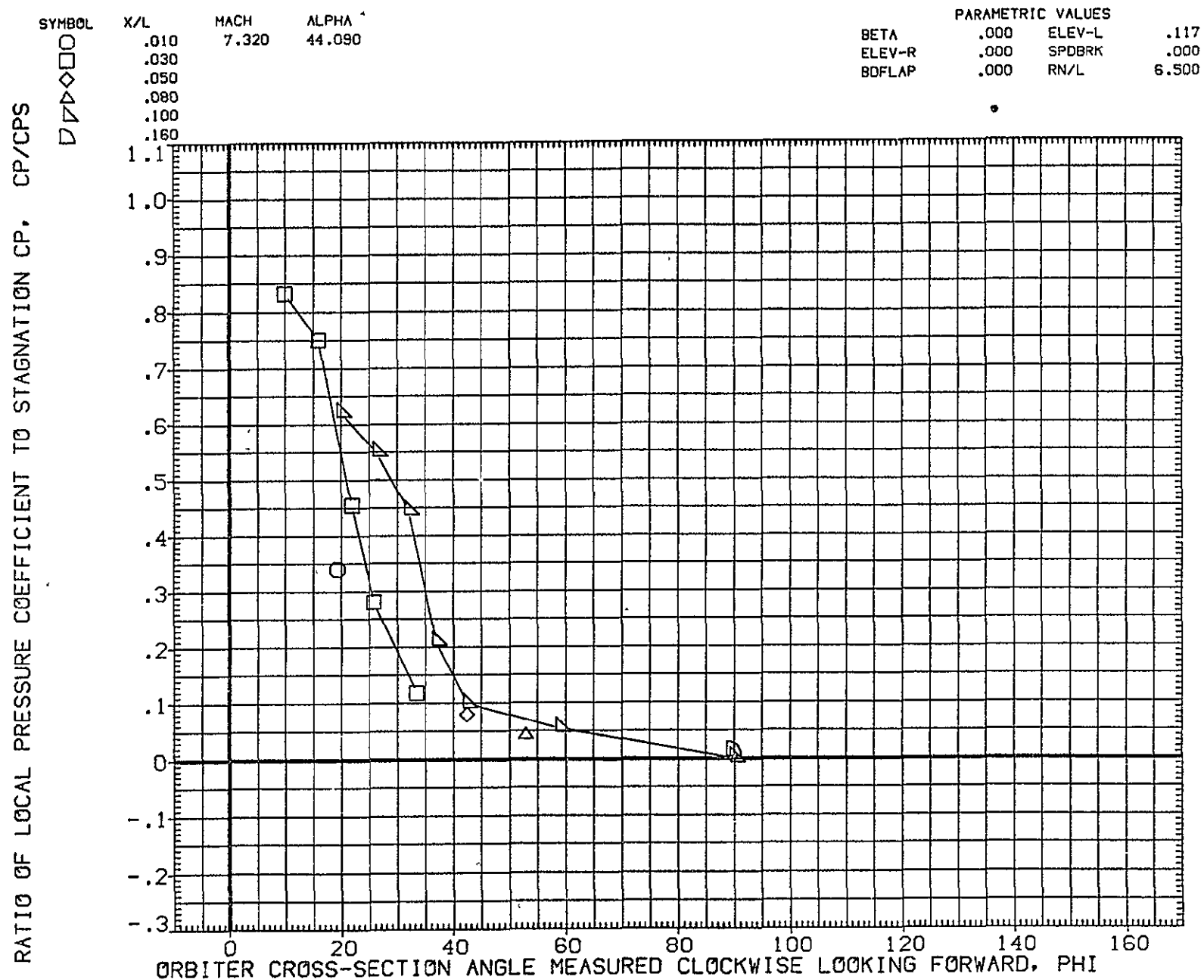


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (CEZJ04)

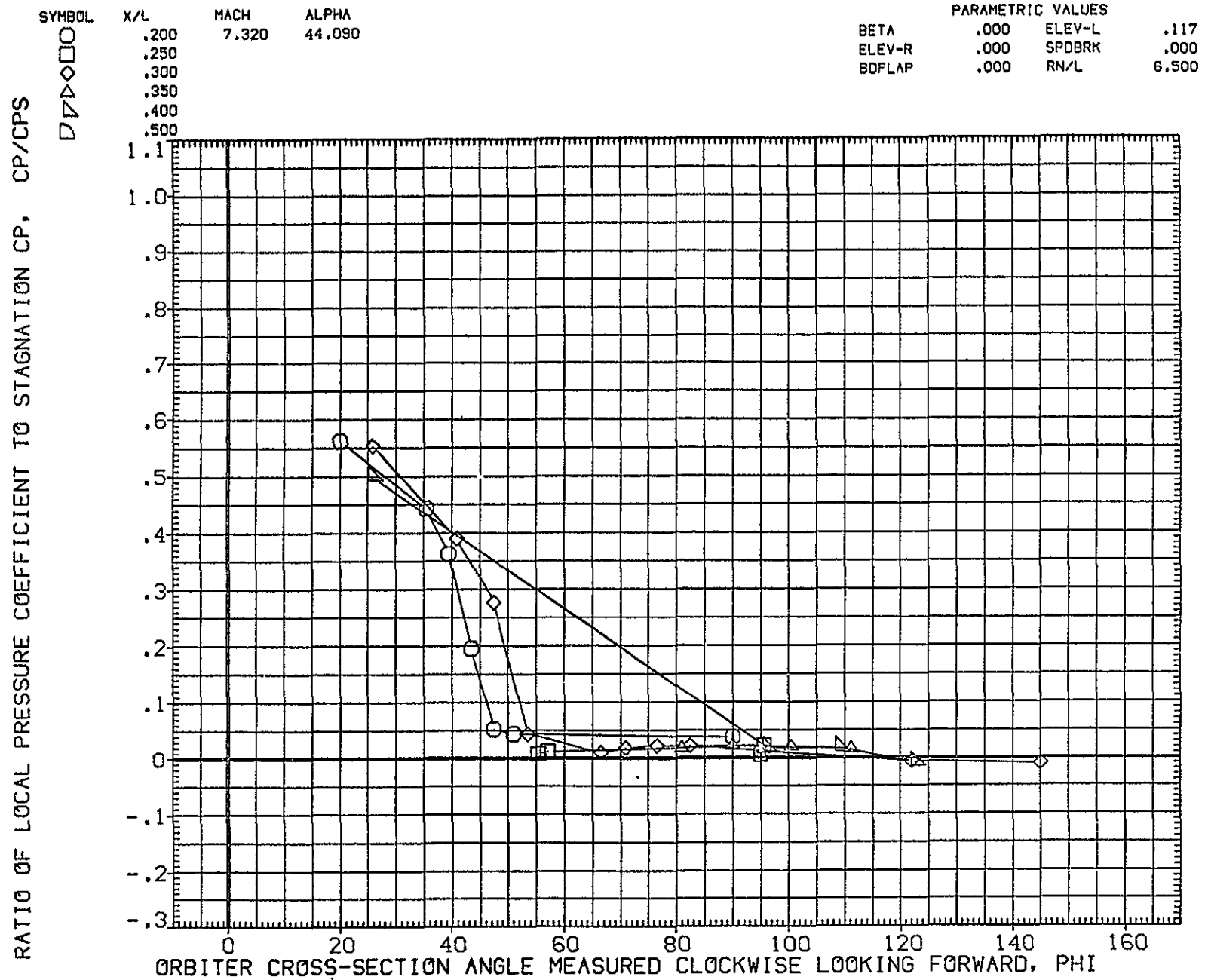


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (CEZJ04)

SYMBOL  
 $\nabla$   $\diamond$   $\square$   $\circ$

X/L	MACH	ALPHA
.600	7.320	44.090
.800		
.829		
.900		
.950		

PARAMETRIC VALUES		
BETA	.000	ELEV-L .117
ELEV-R	.000	SPDRK .000
BDFLAP	.000	RN/L 6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

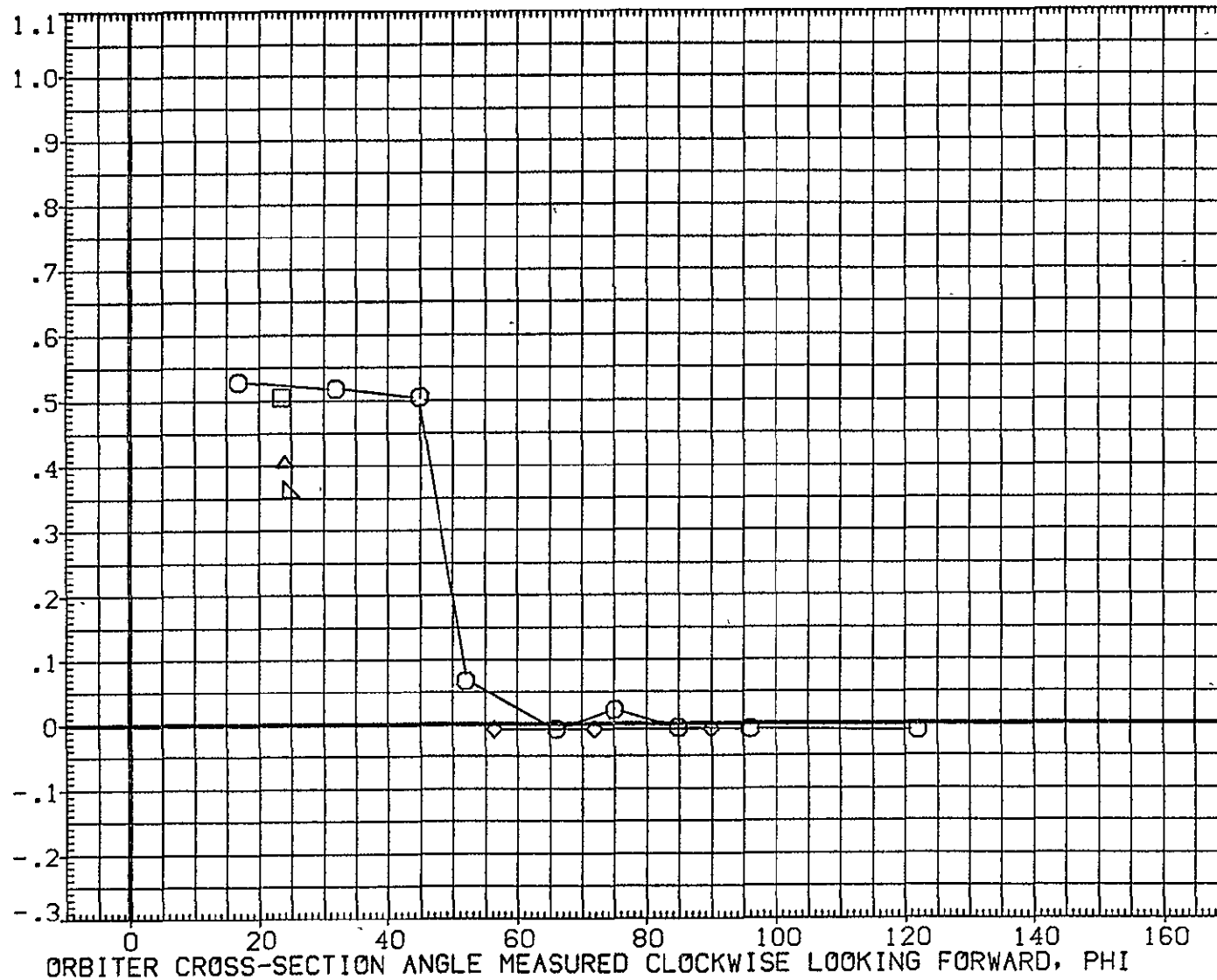


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

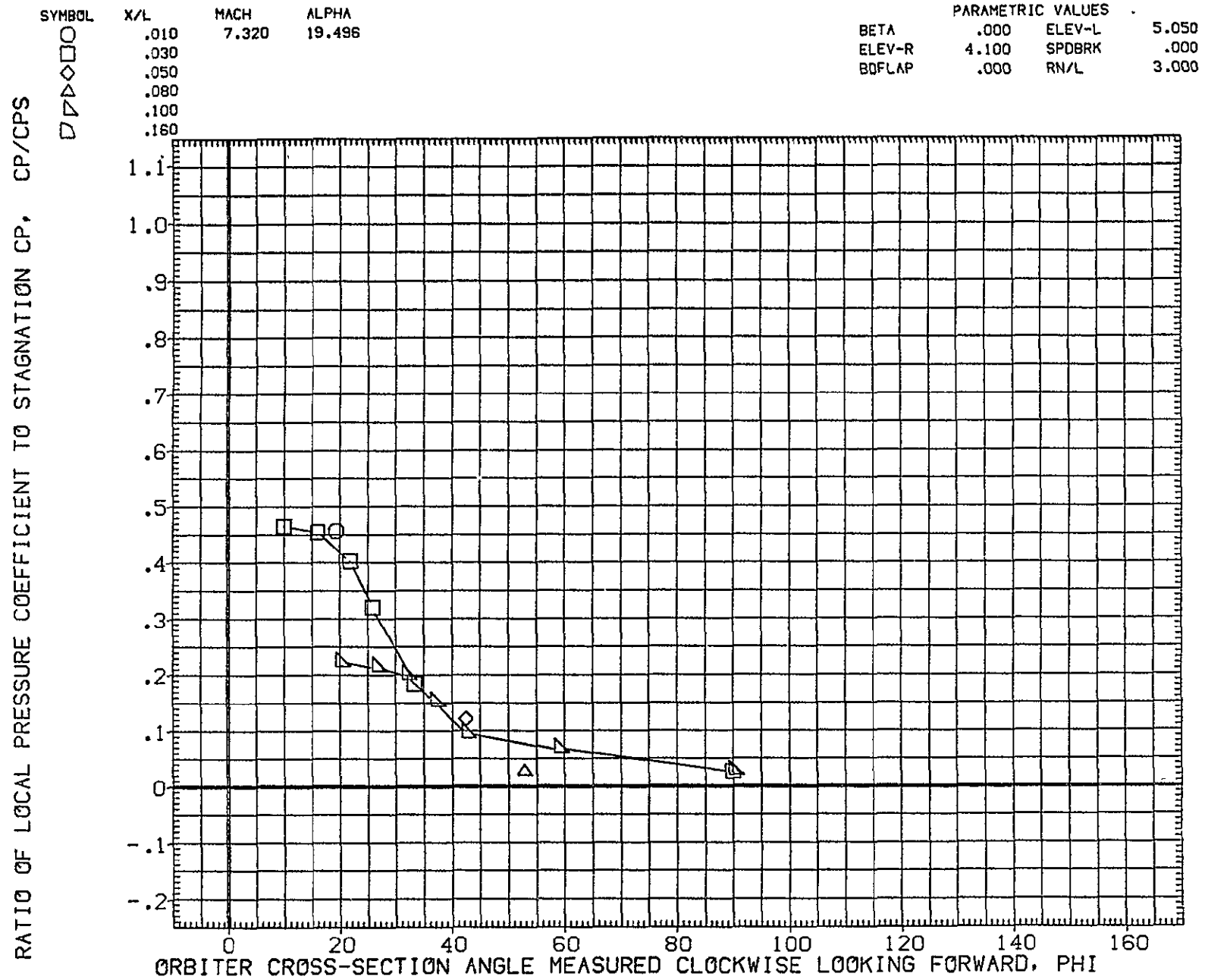


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

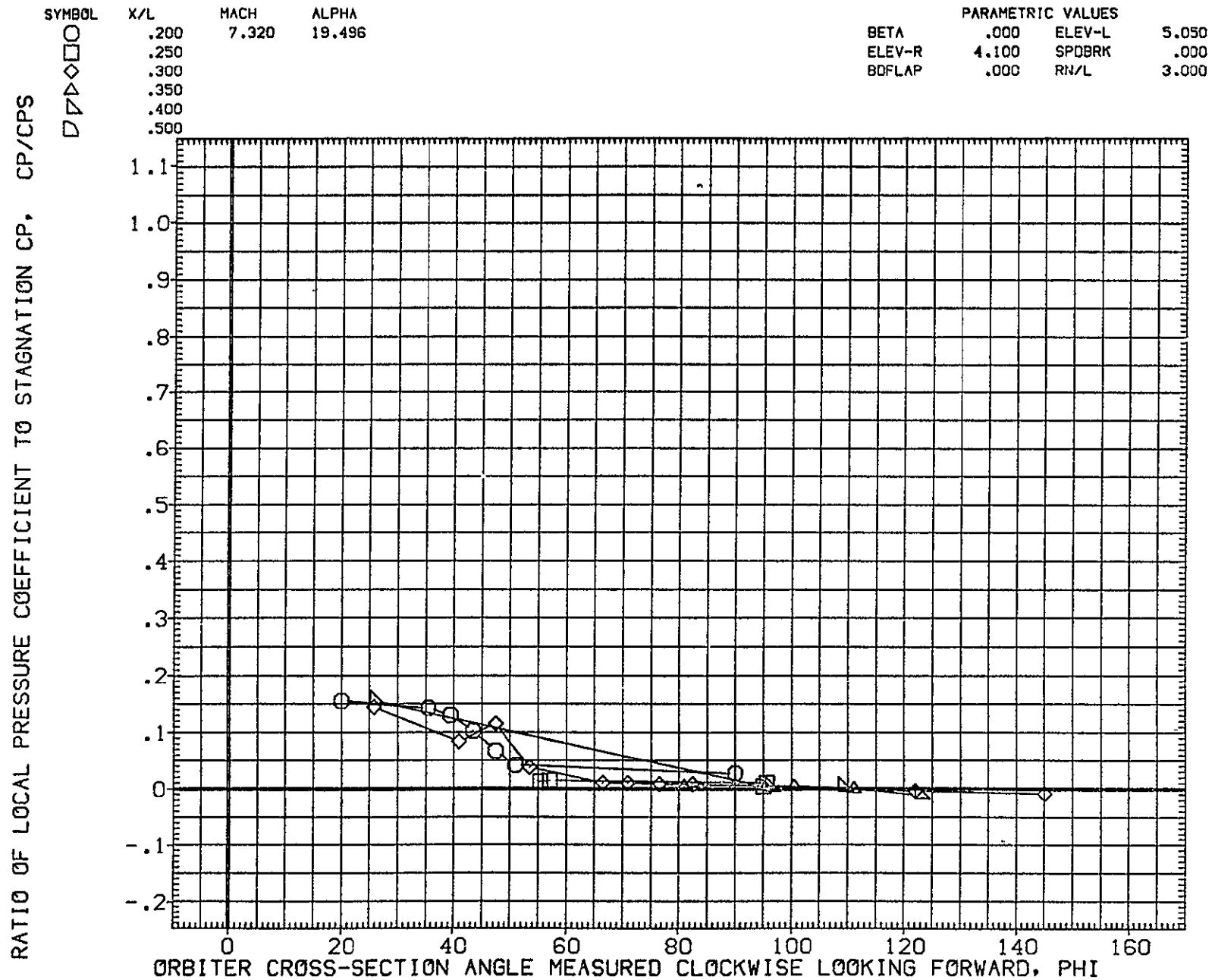


FIG. 12 FUSELAGE CROSS SECTIONS

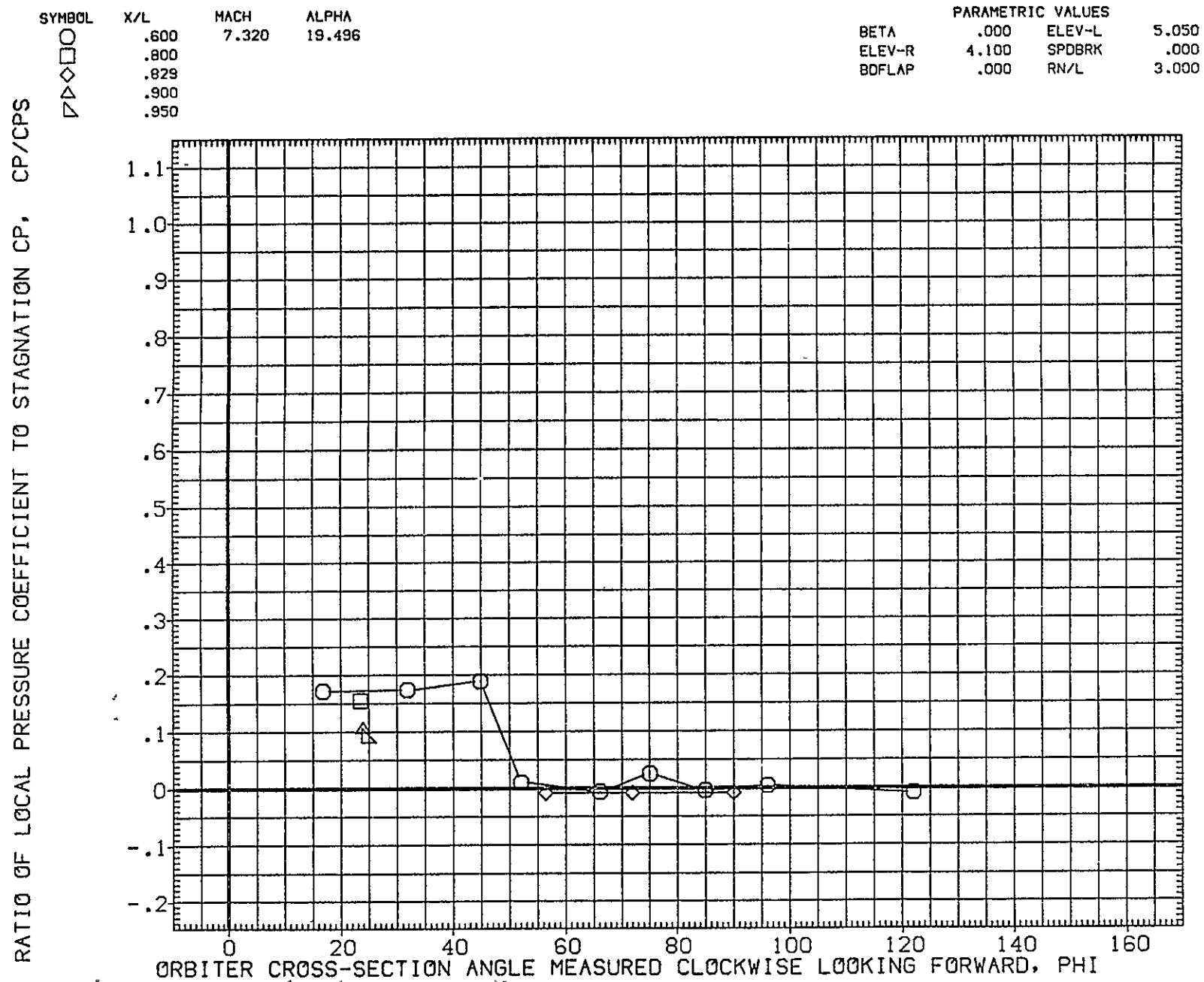


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

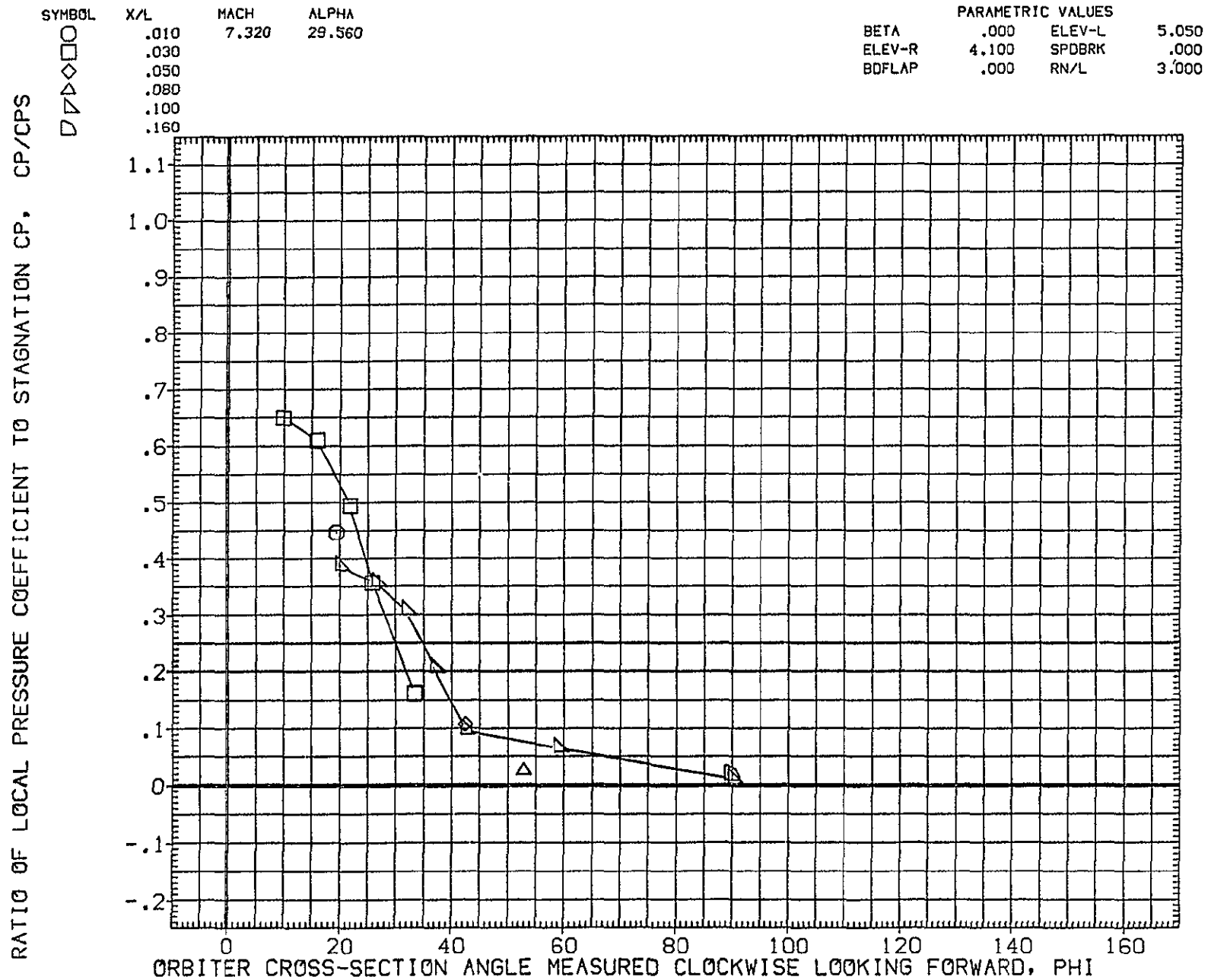


FIG. 12 FUSELAGE CROSS SECTIONS

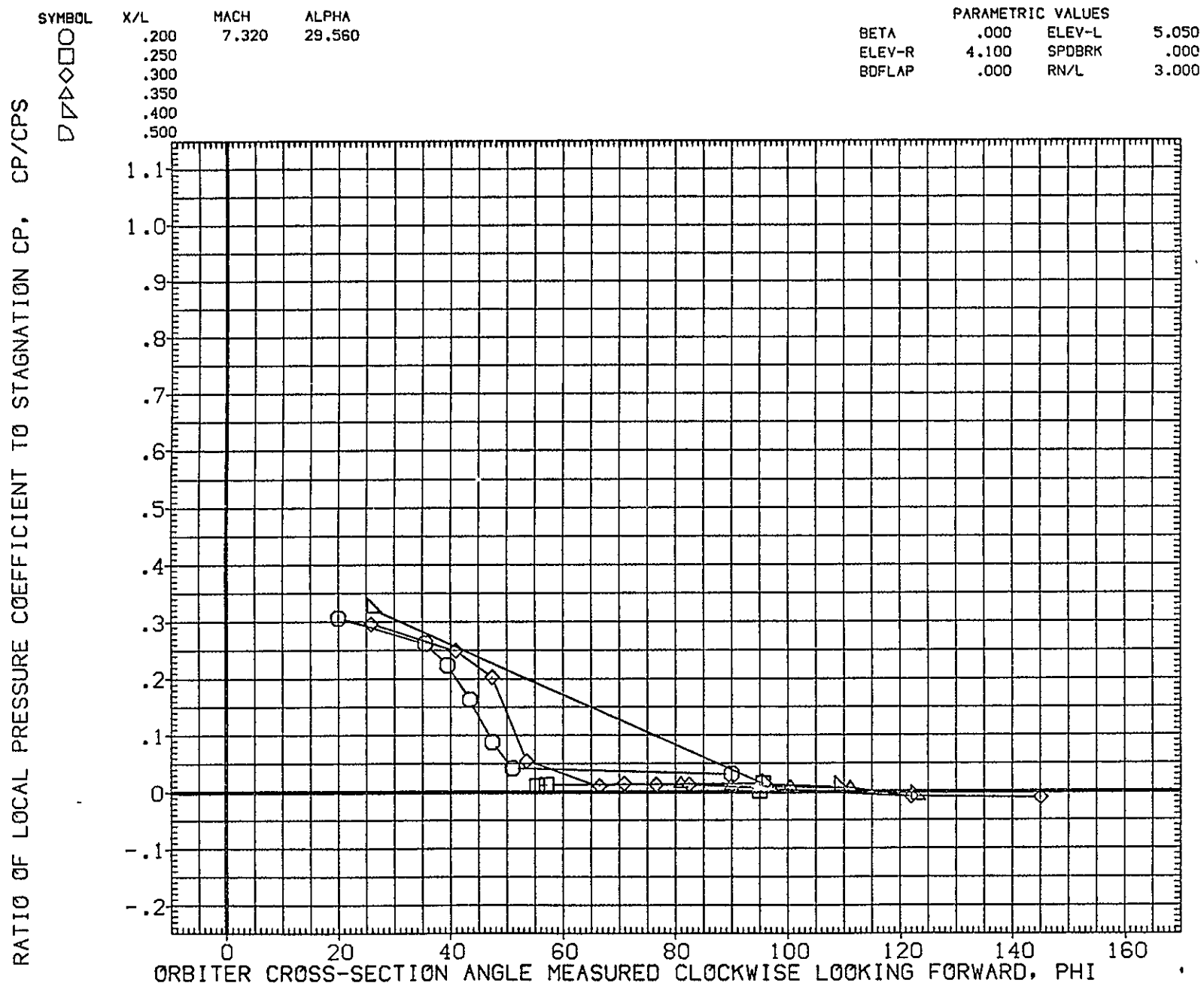


FIG. 12 FUSELAGE CROSS SECTIONS



ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

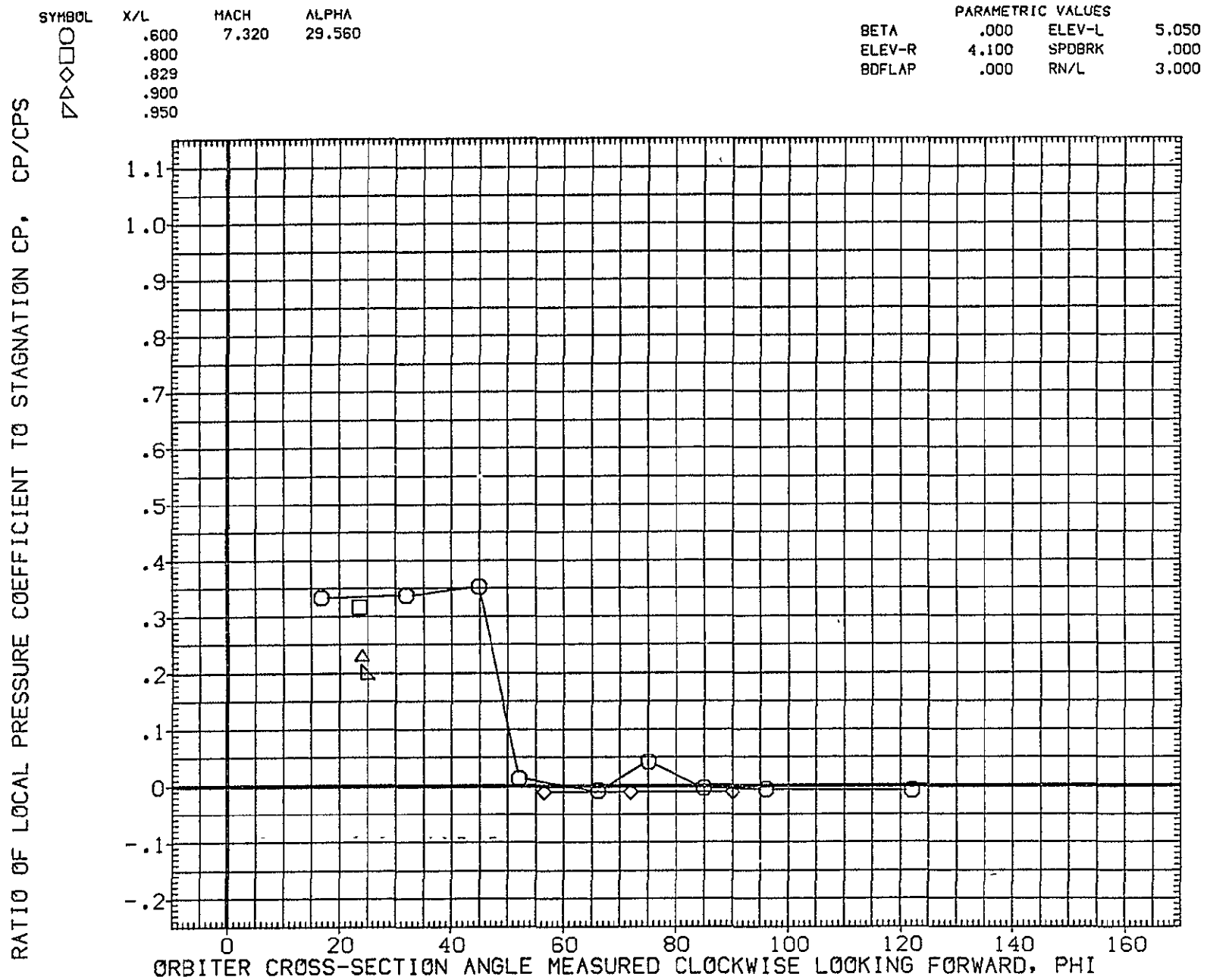


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

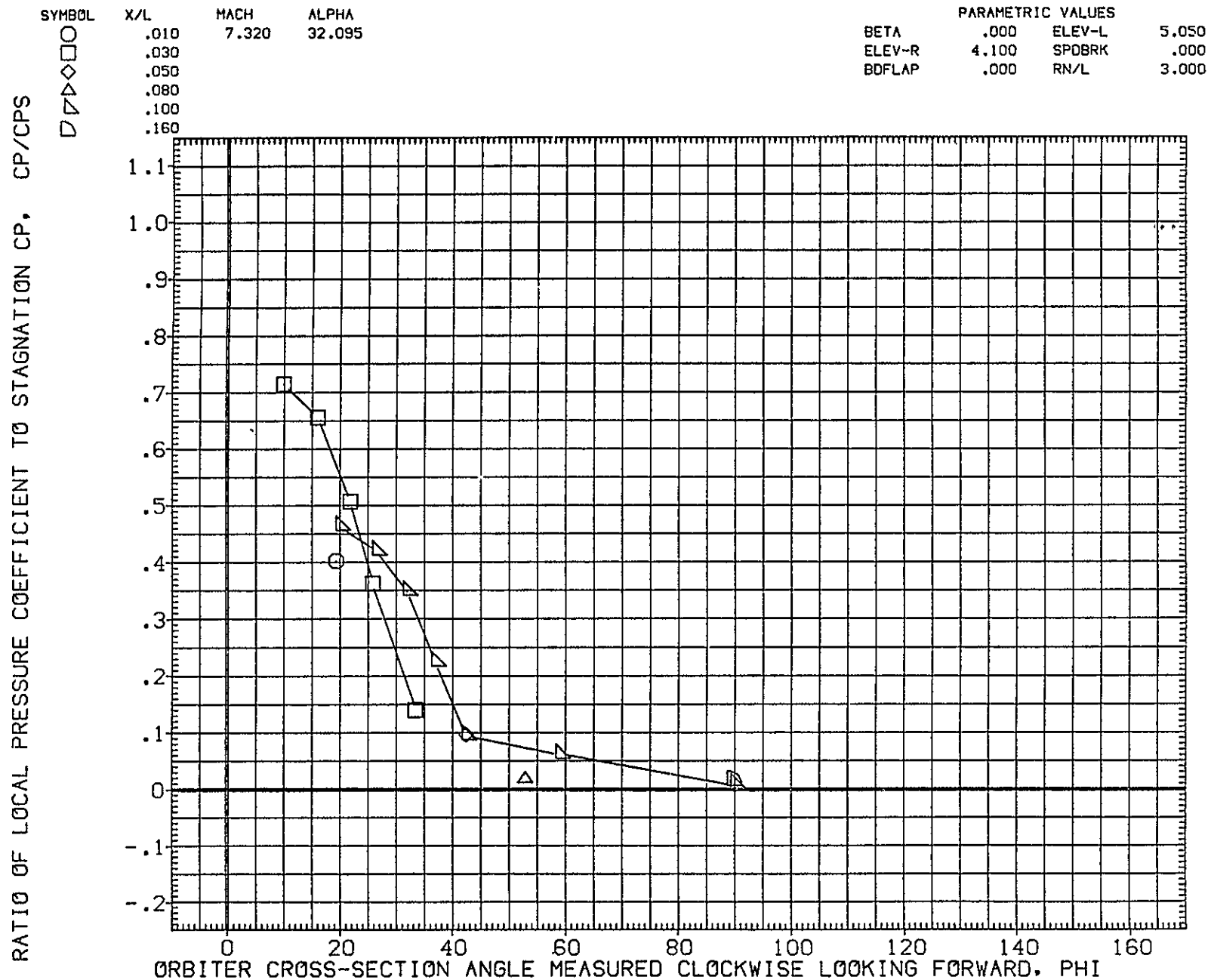


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0438 140C ORB FUSELAGE CROSS SECT. (PEZJ05)

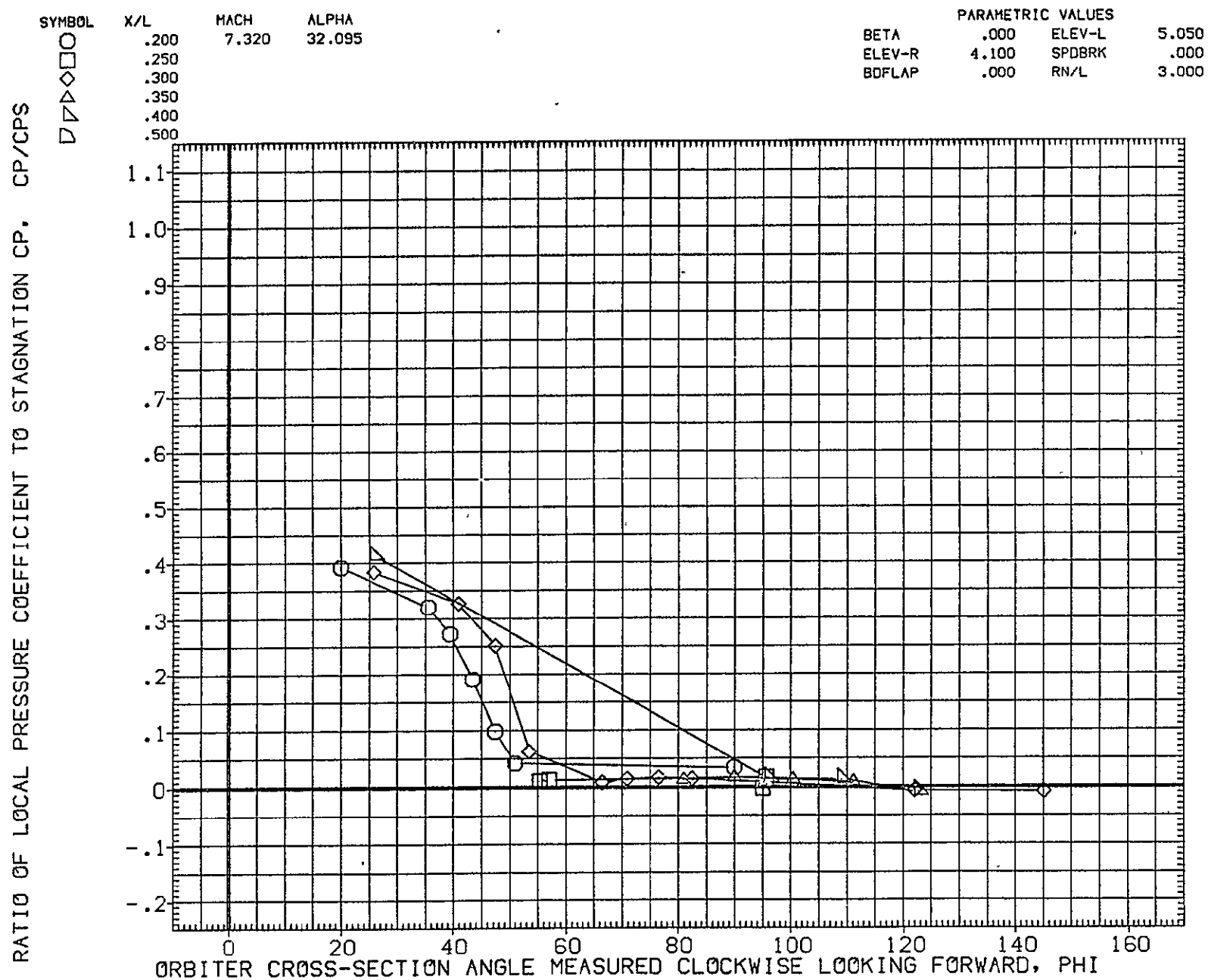


FIG. 12 FUSELAGE CROSS SECTIONS

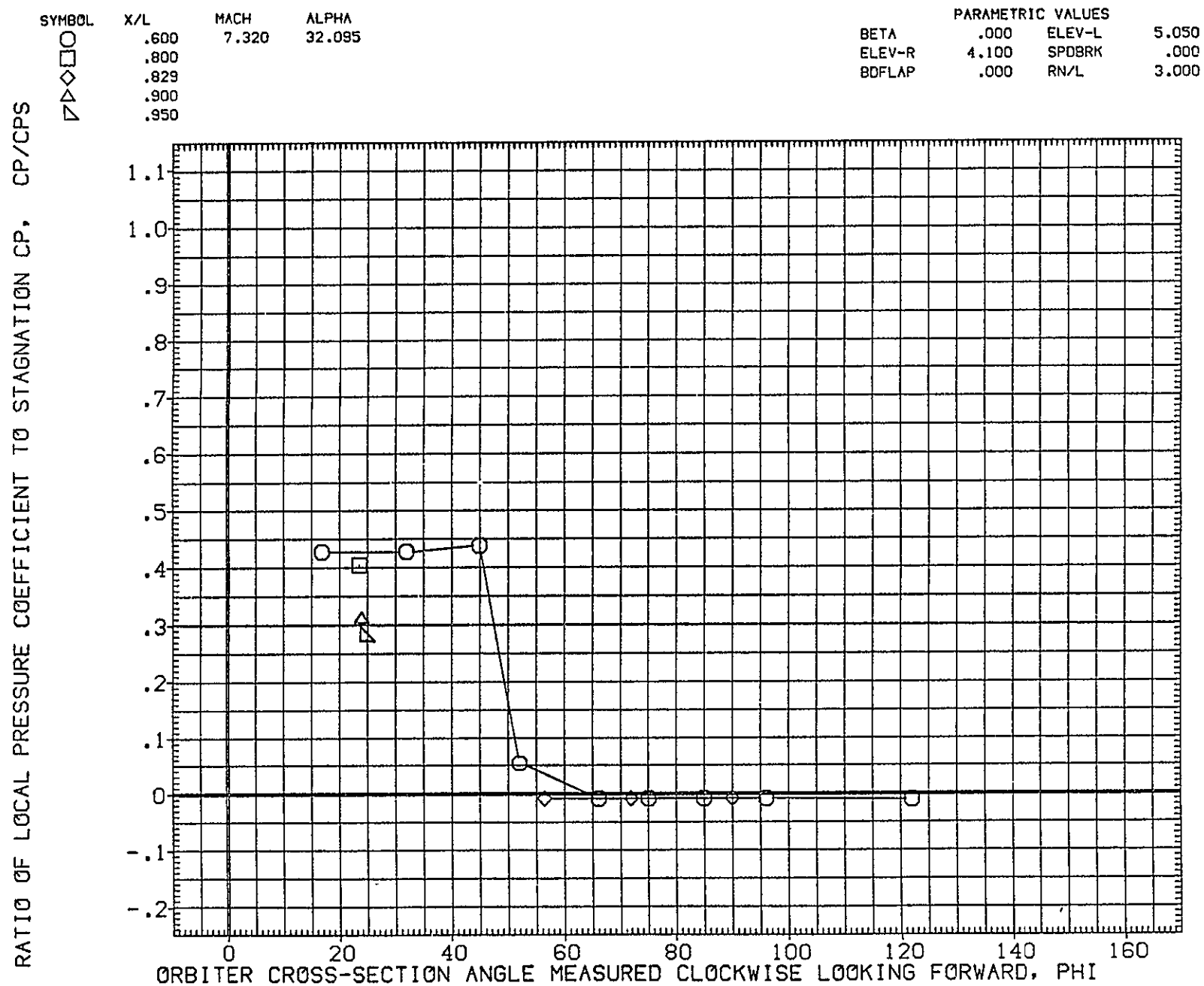


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

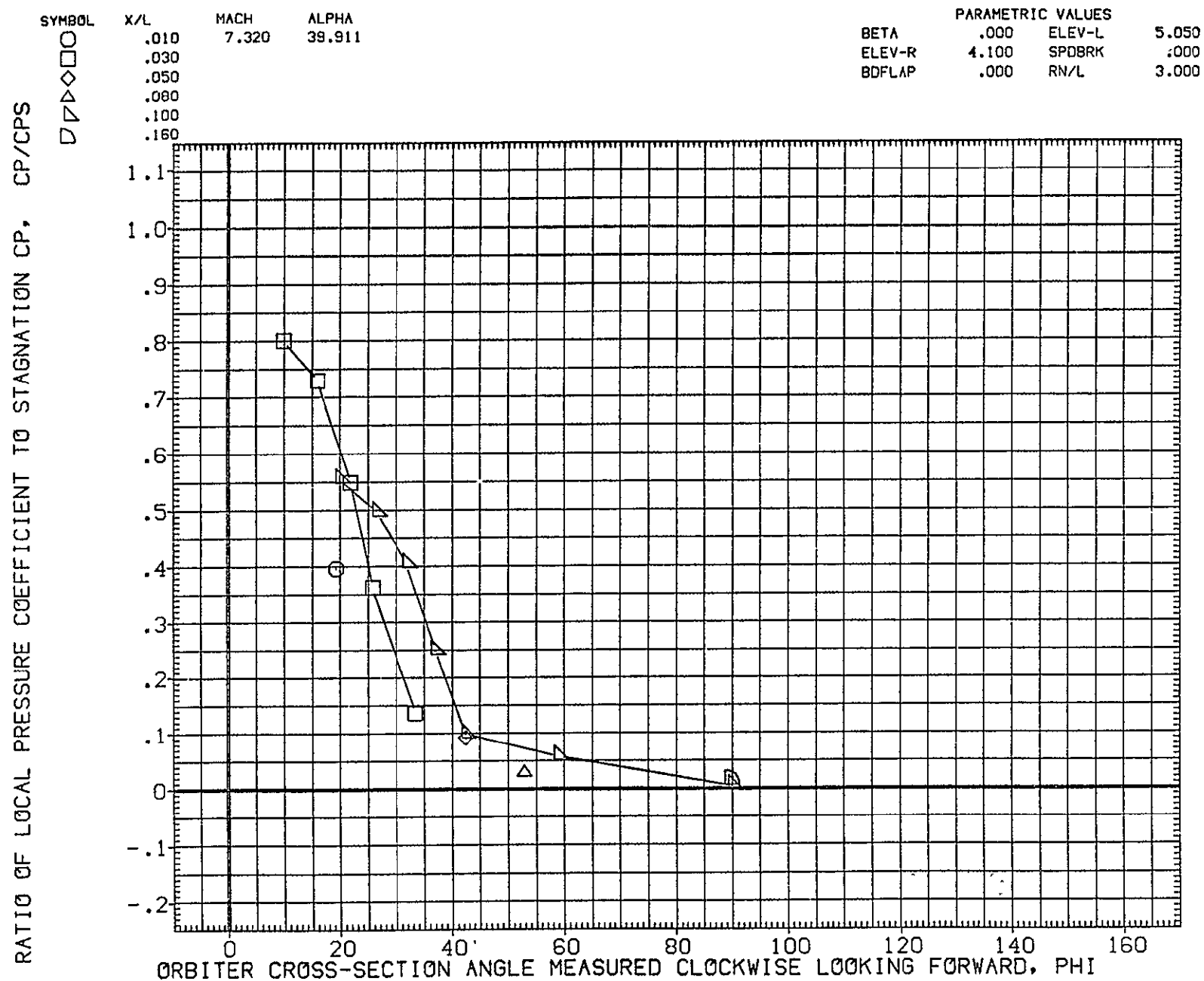


FIG. 12 FUSELAGE CROSS SECTIONS

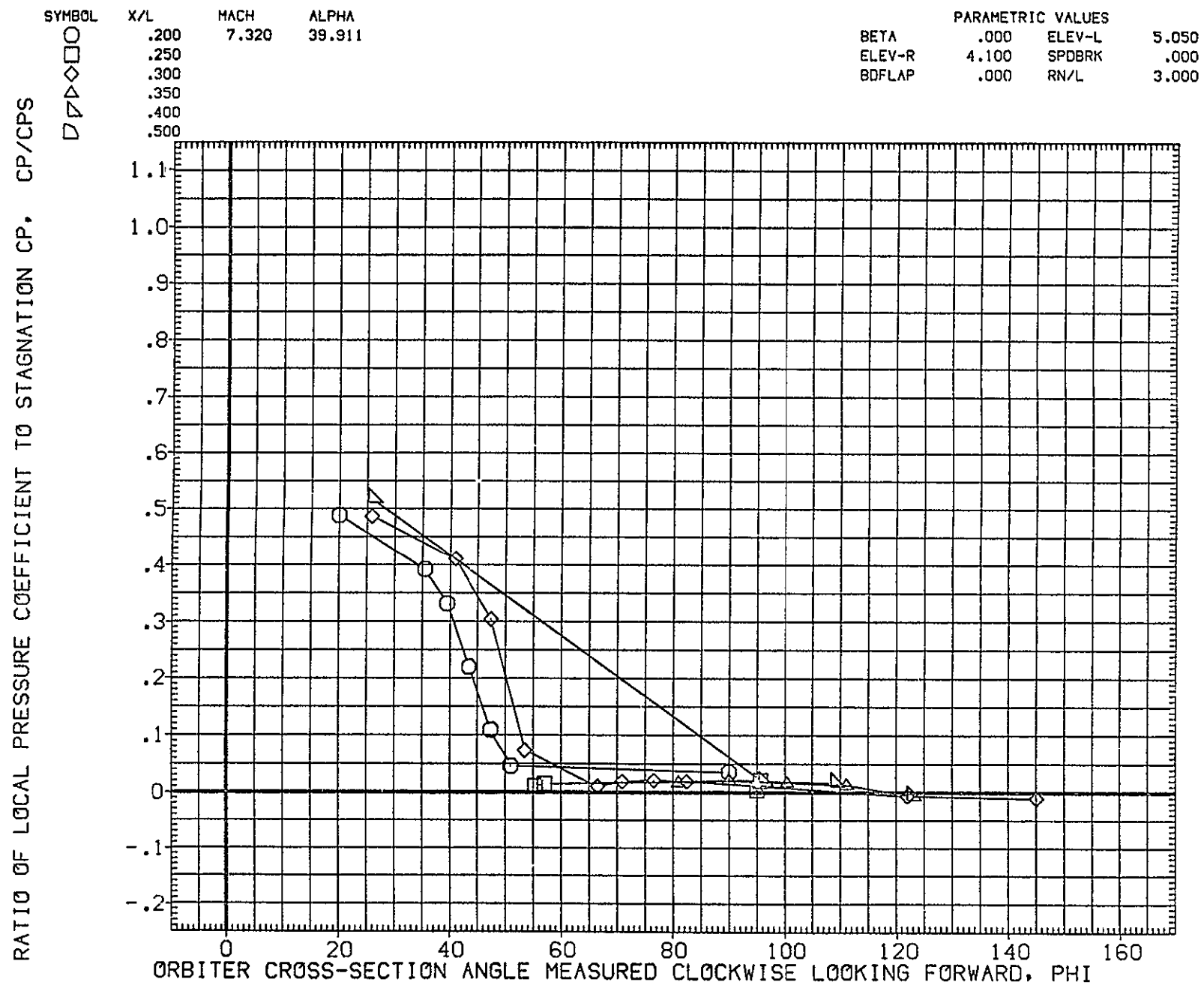


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 33.55-1188 10H08 1140C ORB FUSELAGE CROSS SECT. (PEZJ05)

SYMBOL XX/L MMACH AABRHA  
 .0600 17.3320 3399911  
 .0800  
 .0829  
 .0900  
 .0950

PARAMETRIC VALUES  
 BETA .0000 ELEV-L 5.050  
 ELEV-R 4.100 SPDRK .000  
 BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP: CP/CPs

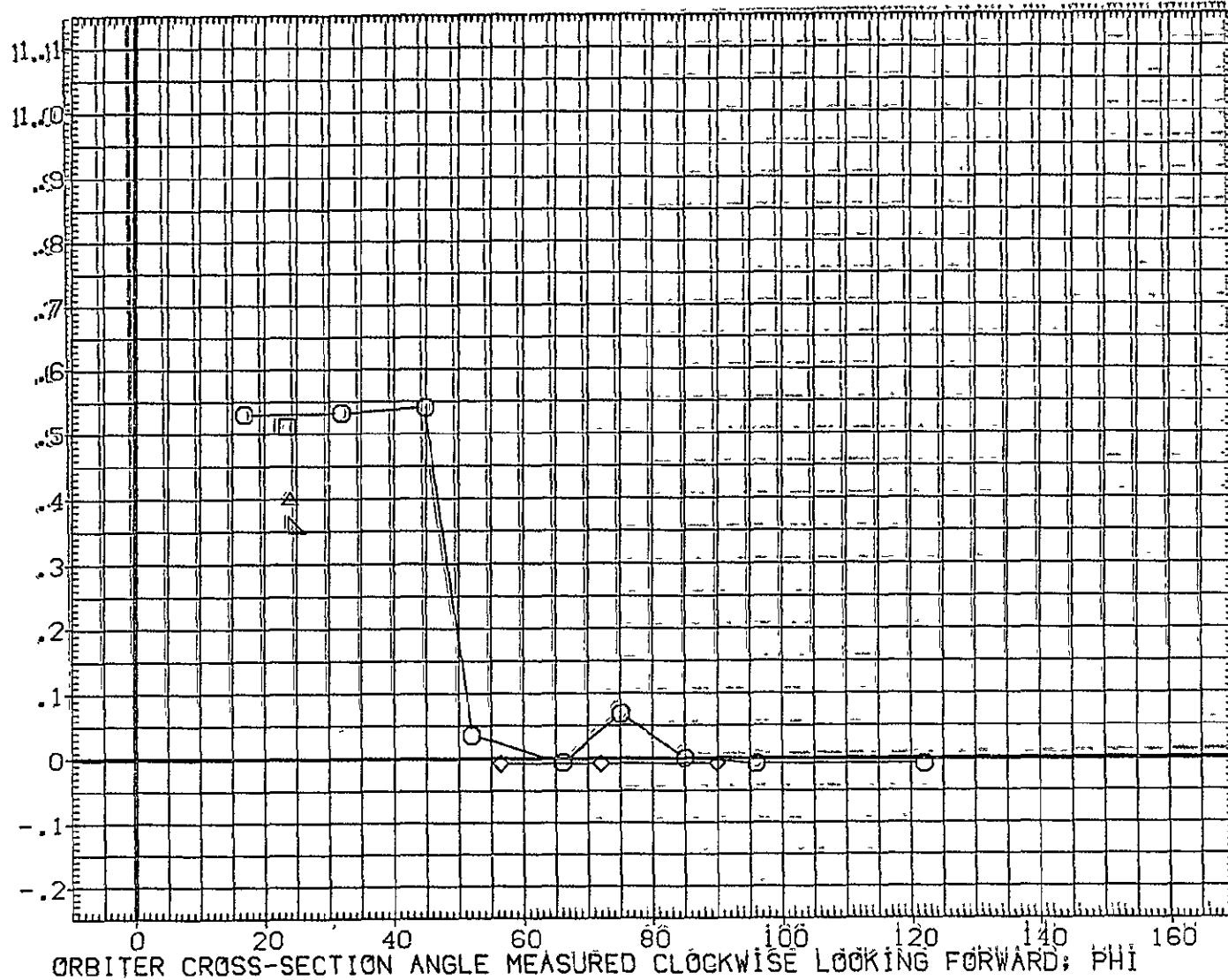


FIG. 12 FUSELAGE CROSS SECTIONS

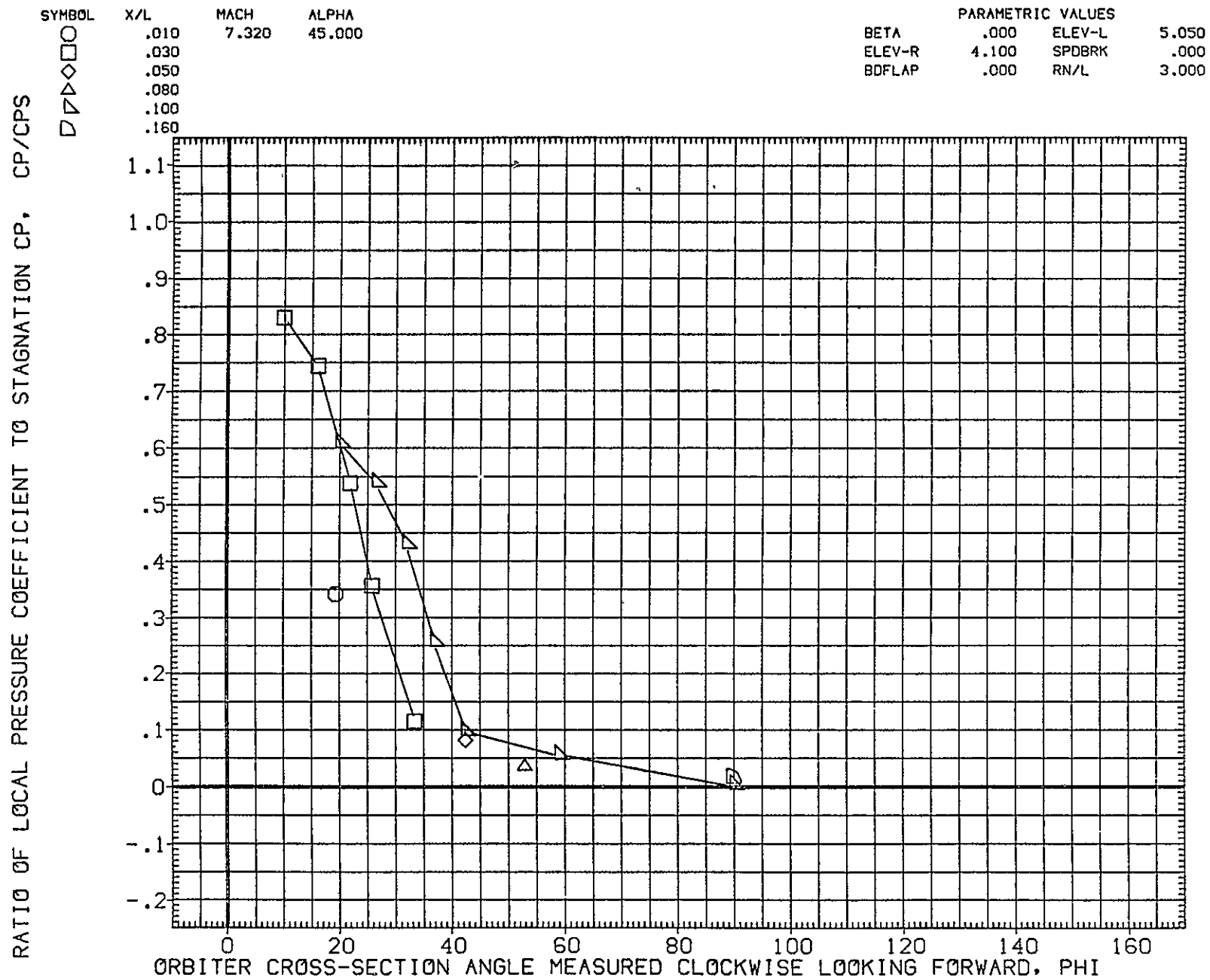


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

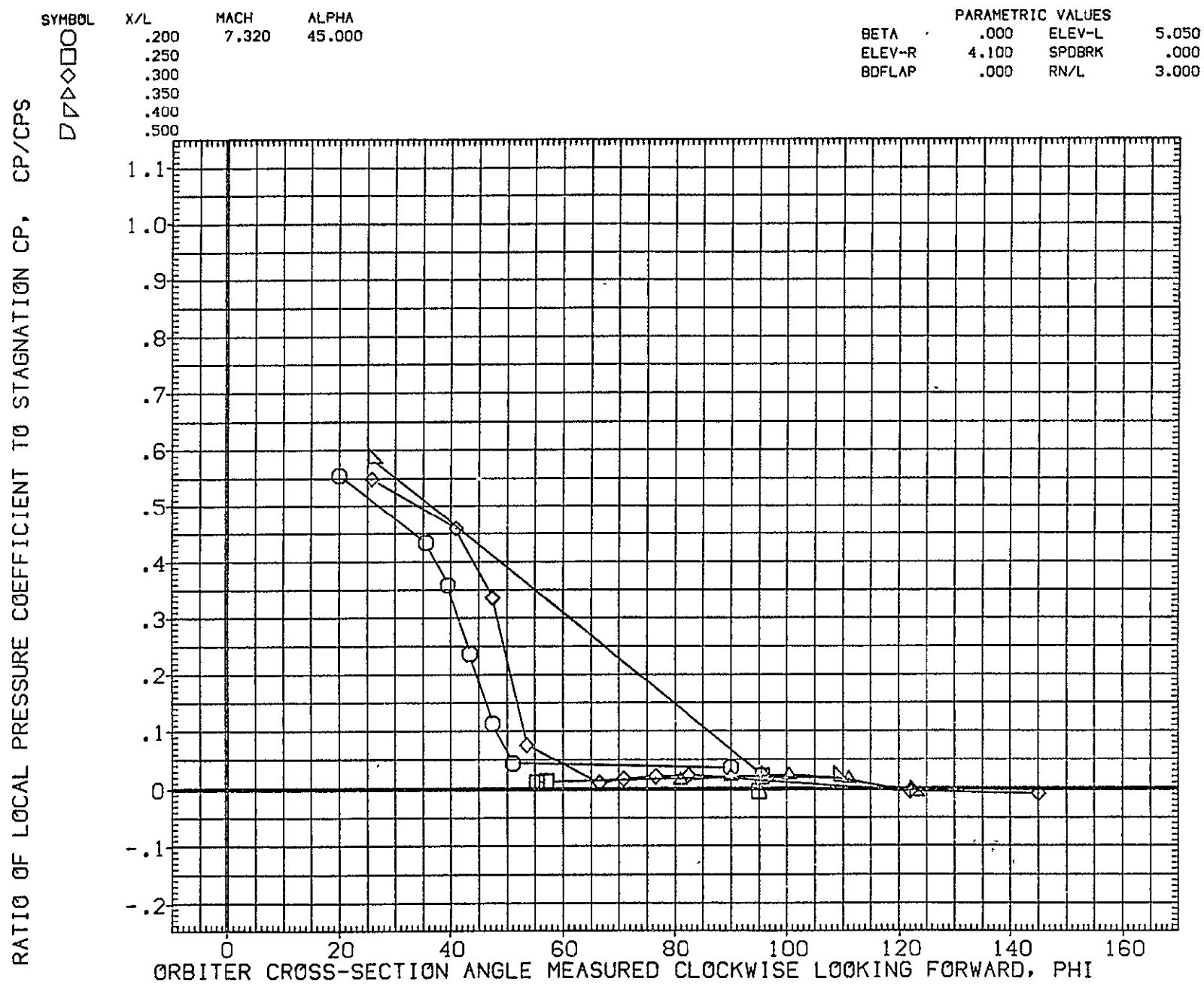


FIG. 12 FUSELAGE CROSS SECTIONS

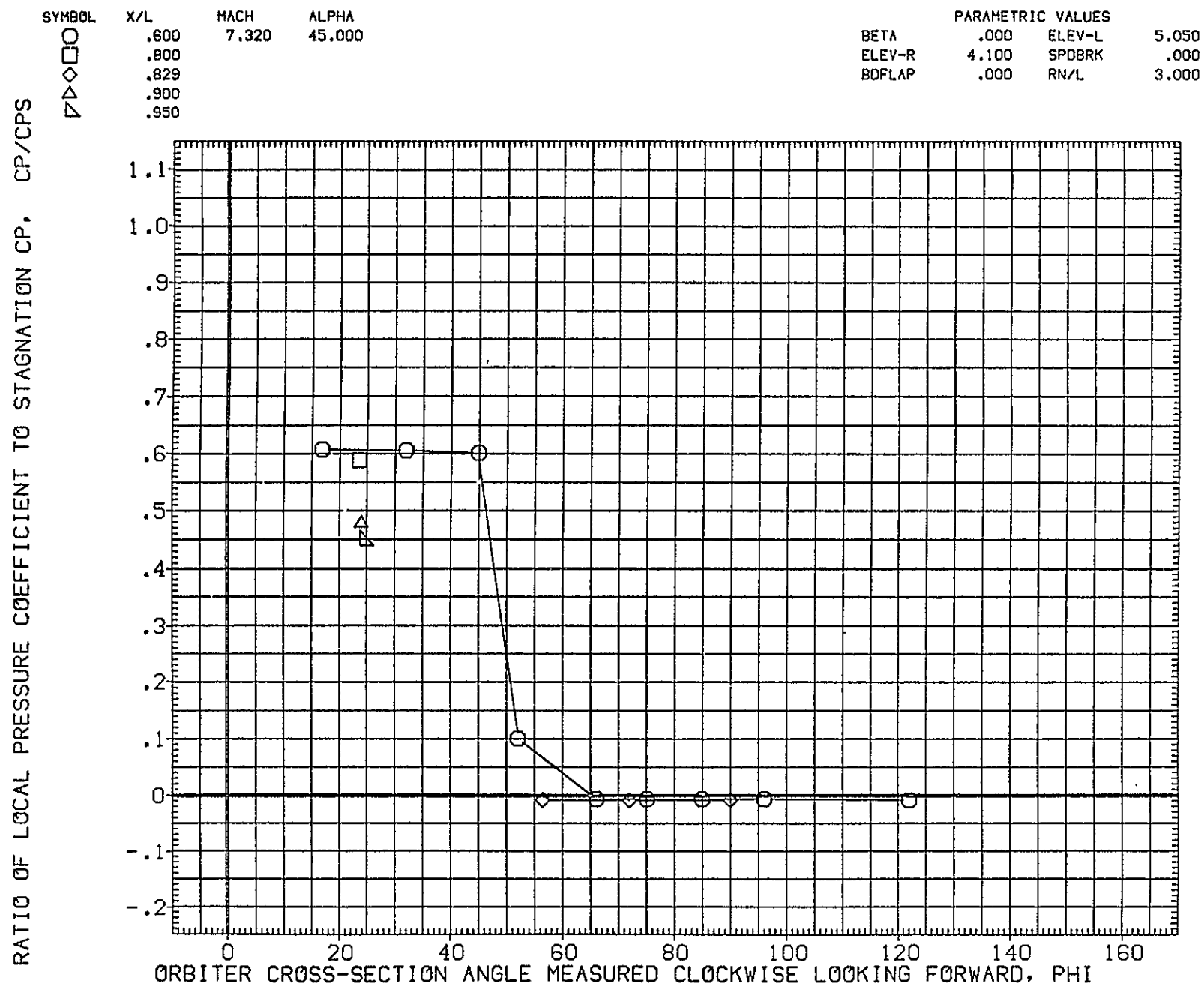


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

SYMBOL	X/L	MACH	ALPHA	PARAMETRIC VALUES			
				BETA	ELEV-L	ELEV-R	BDFLAP
○	.010	7.320	50.000	.000	5.050	.000	.000
□	.030			4.100			
◇	.050			.000			
△	.080						
▽	.100						
◁	.160						

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

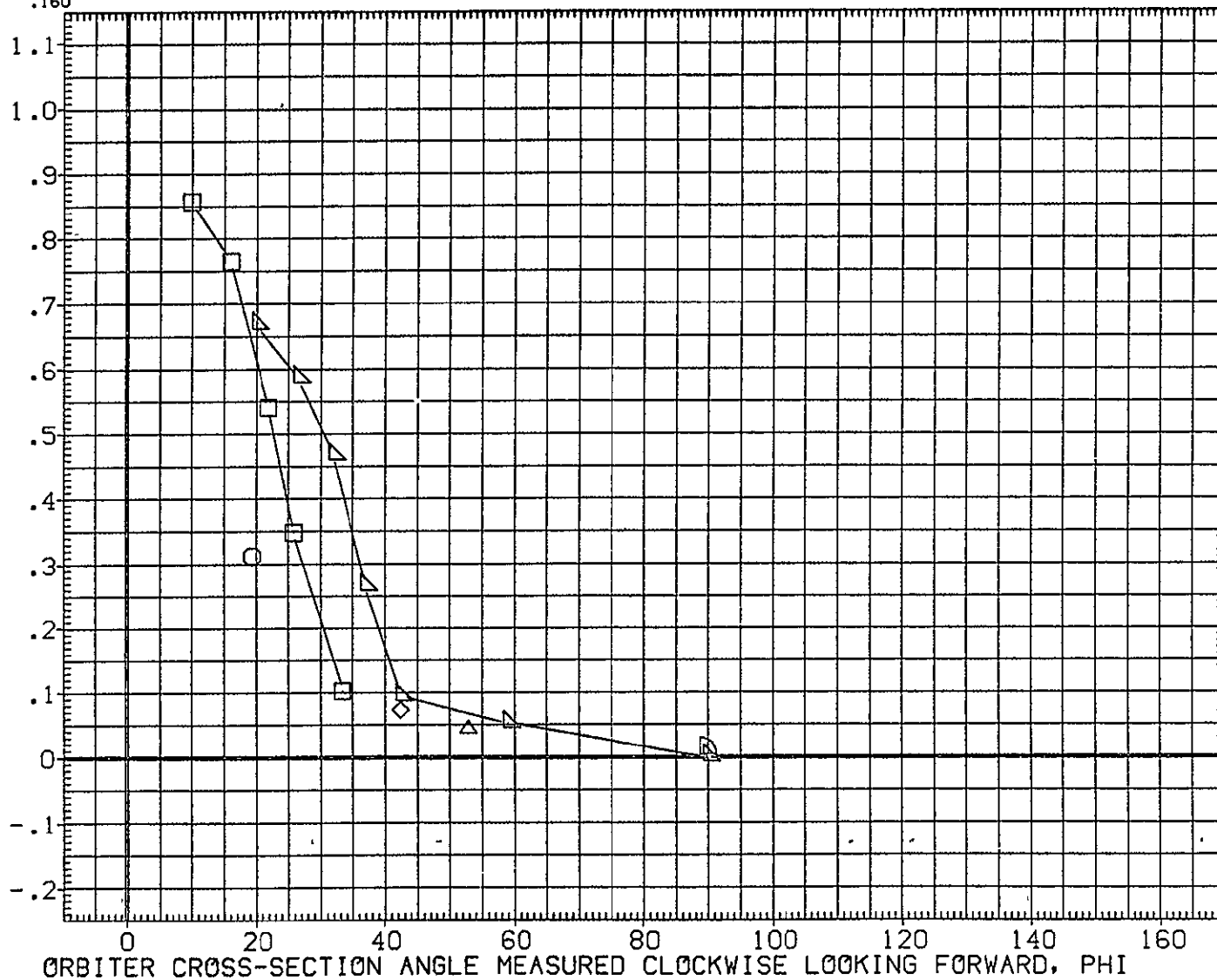


FIG. 12 FUSELAGE CROSS SECTIONS

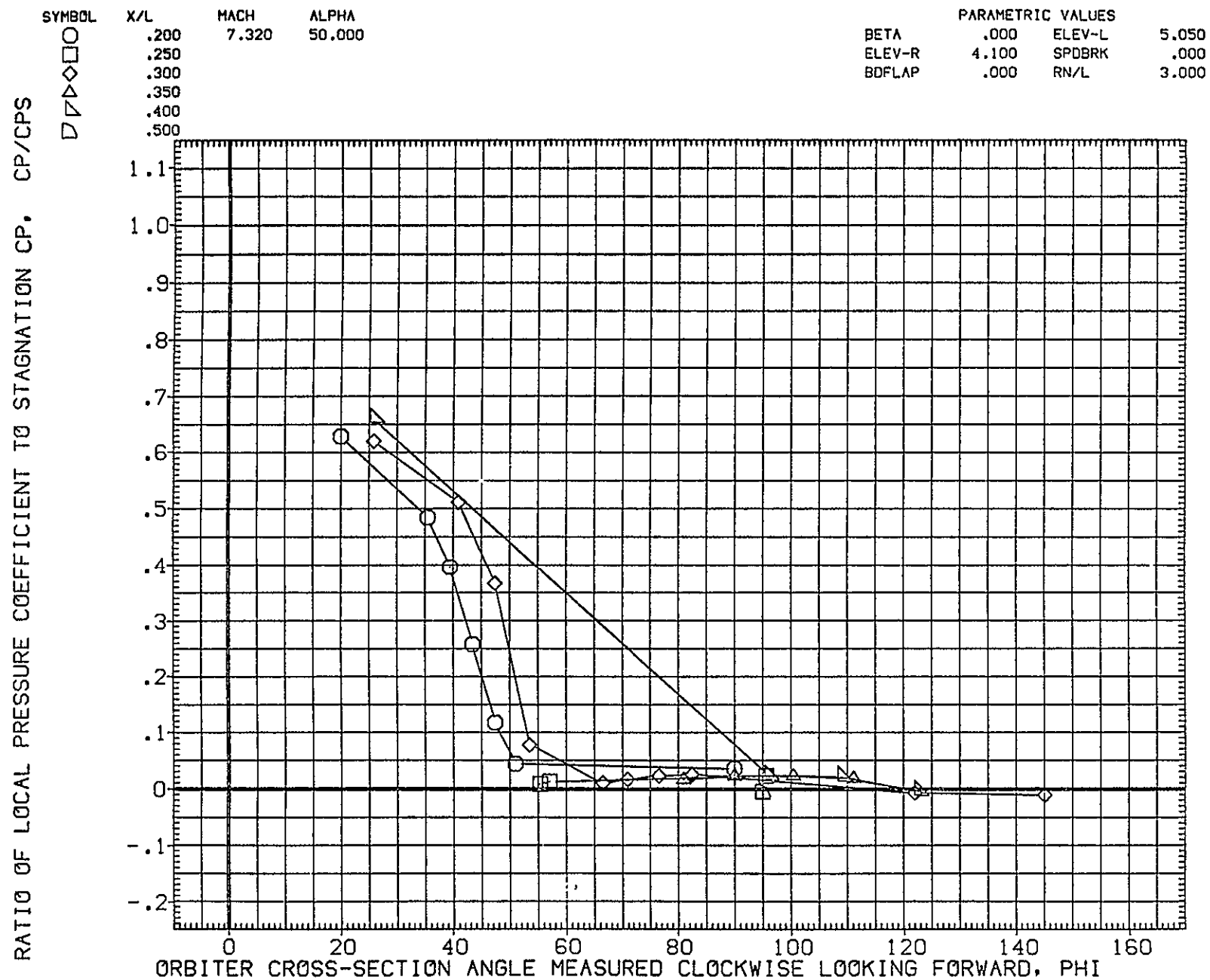


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ05)

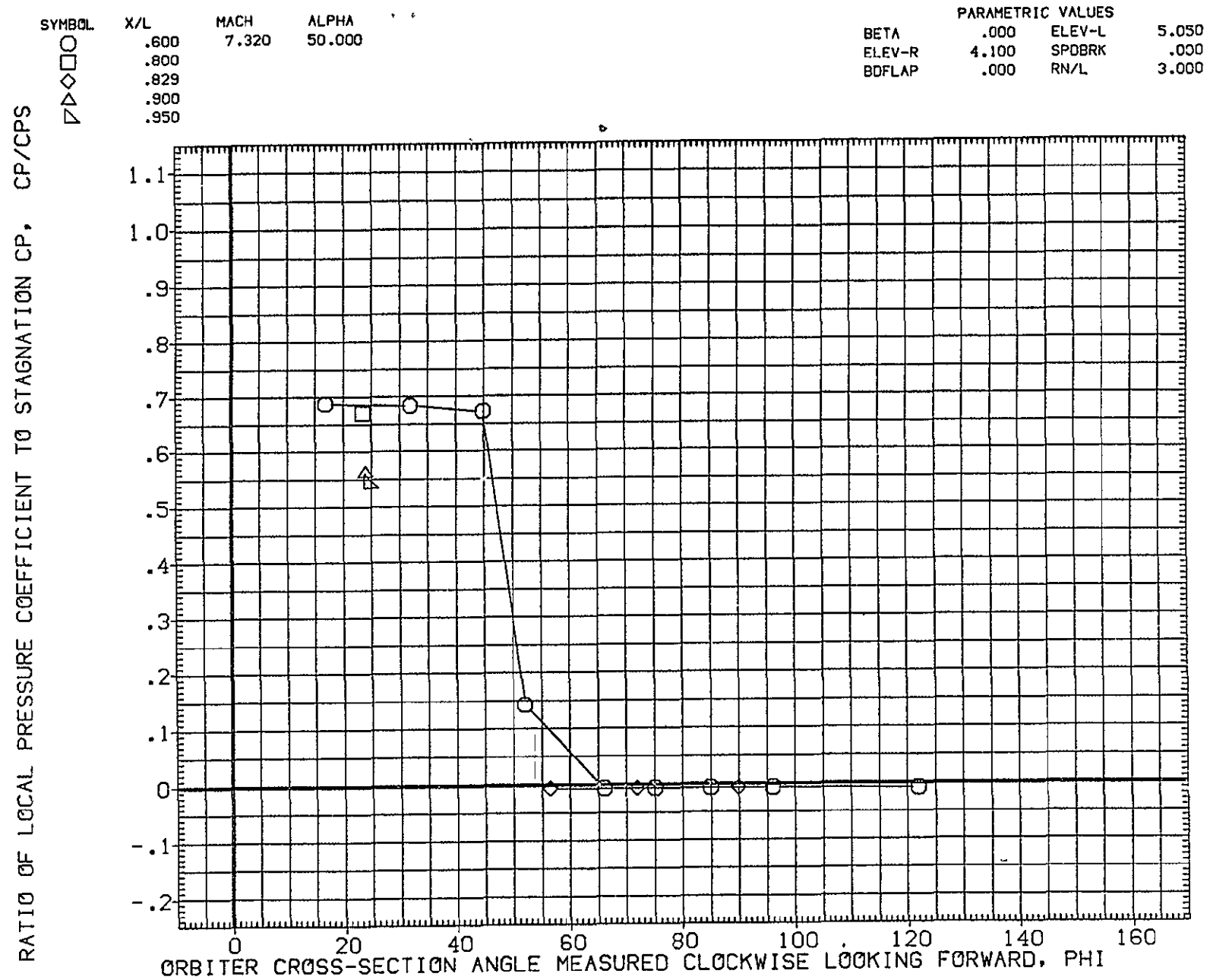


FIG. 12 FUSELAGE CROSS SECTIONS

X/L	MACH	ALPHA
.010	7.320	19.132
.030		
.050		
.080		
.100		
.160		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPOBRK	.000
BDFLAP	15.667	RN/L	3.000

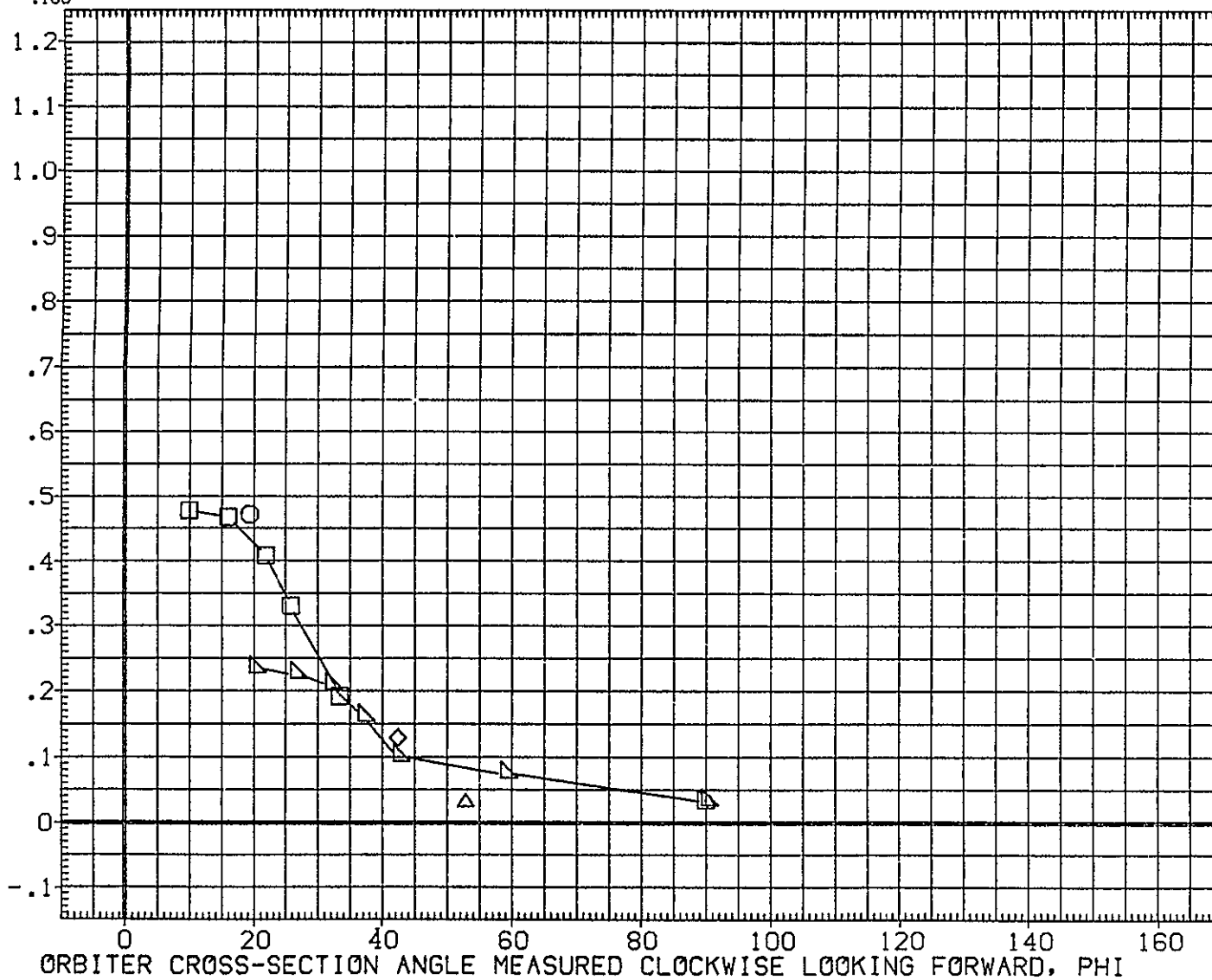
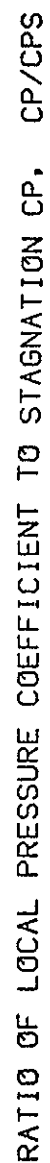


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

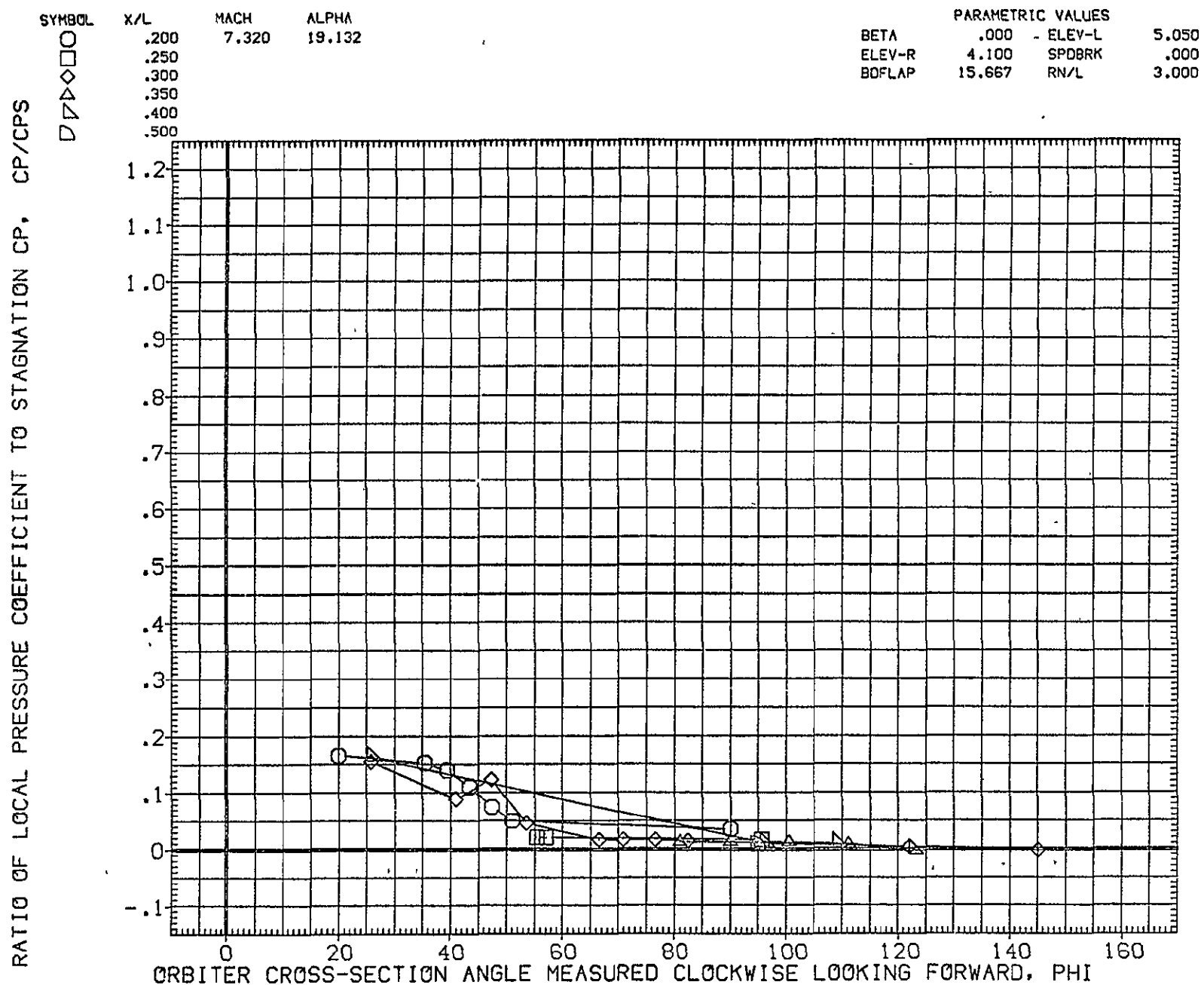


FIG. 12 FUSELAGE CROSS SECTIONS

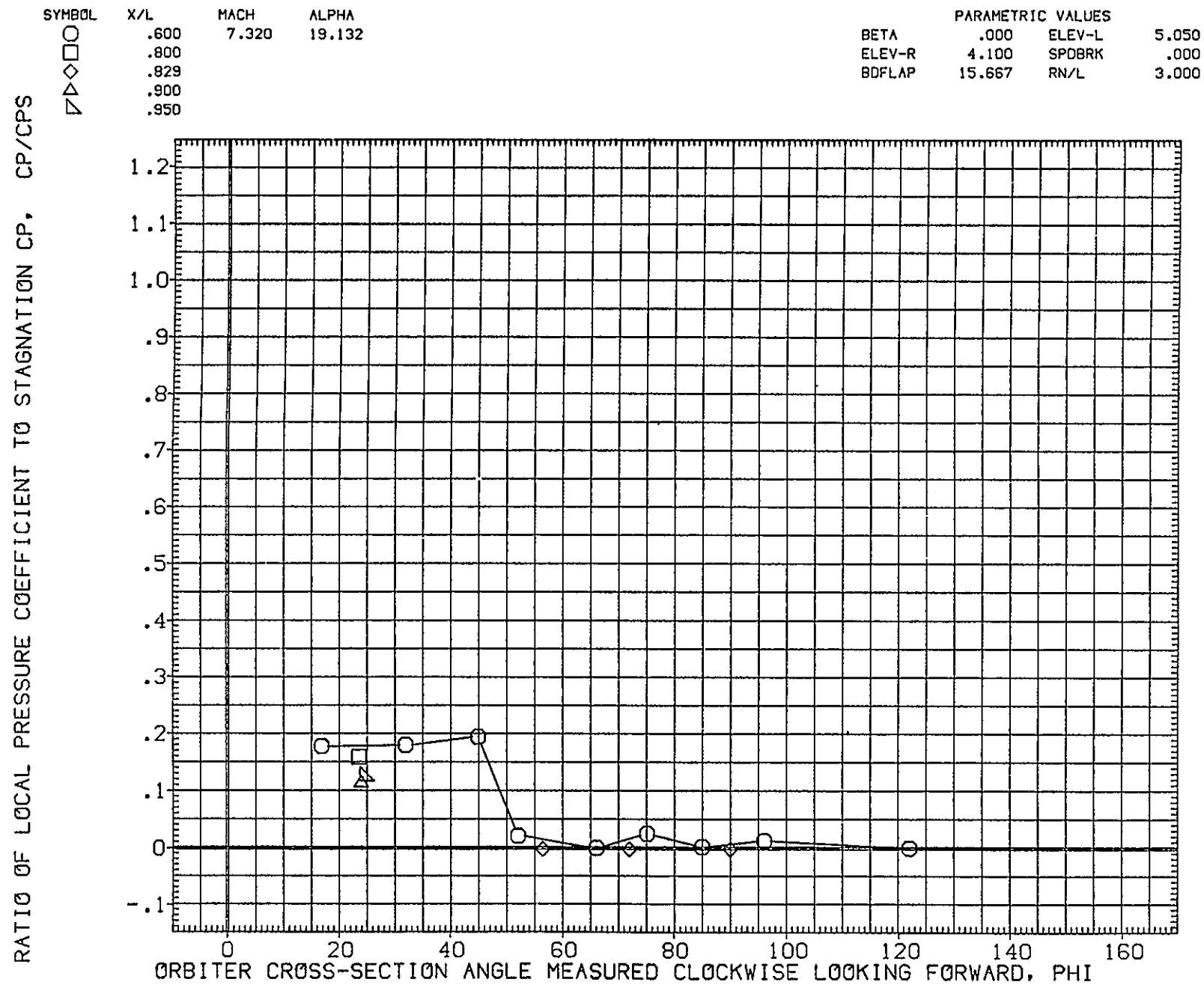


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

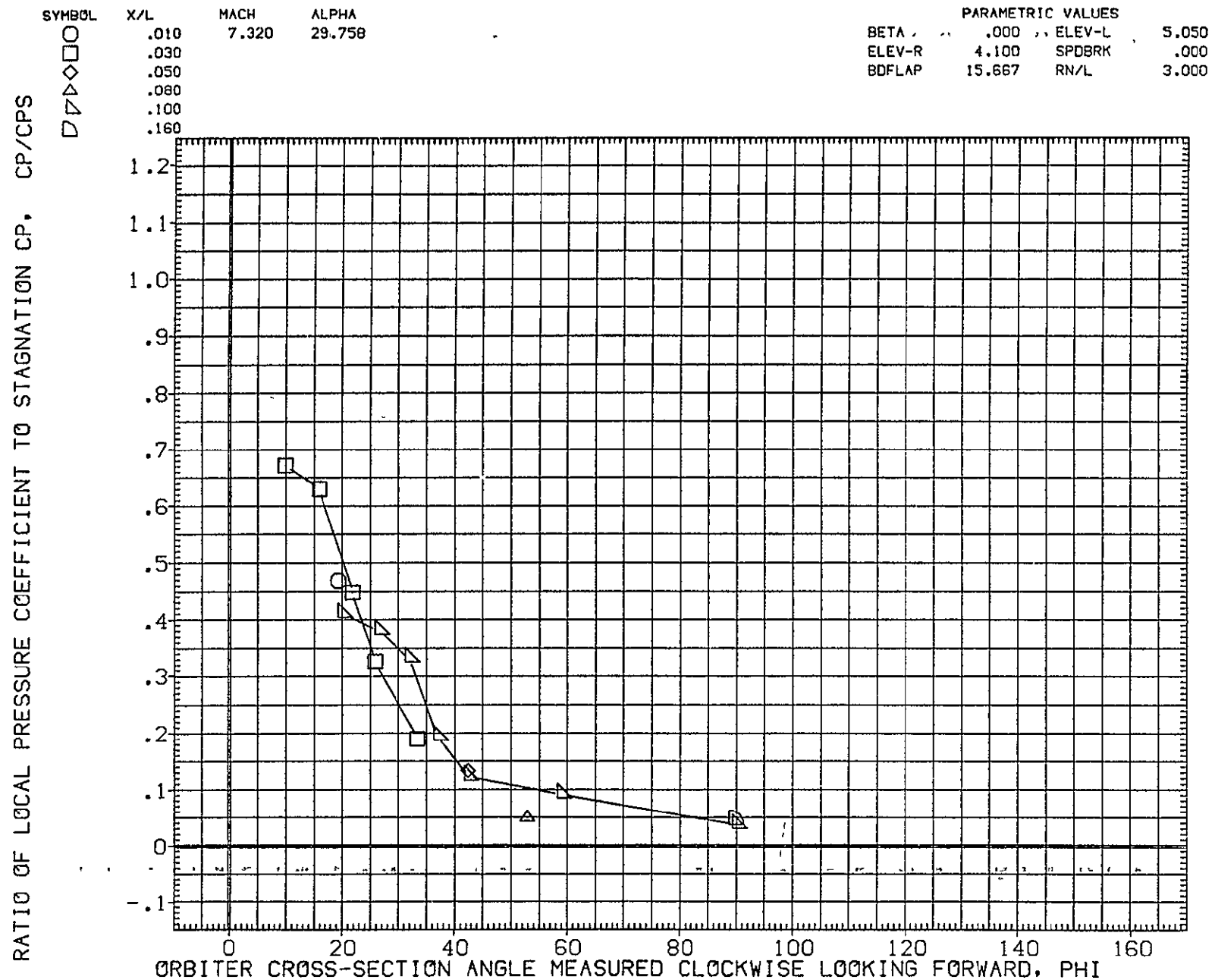


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (PEZJ07)

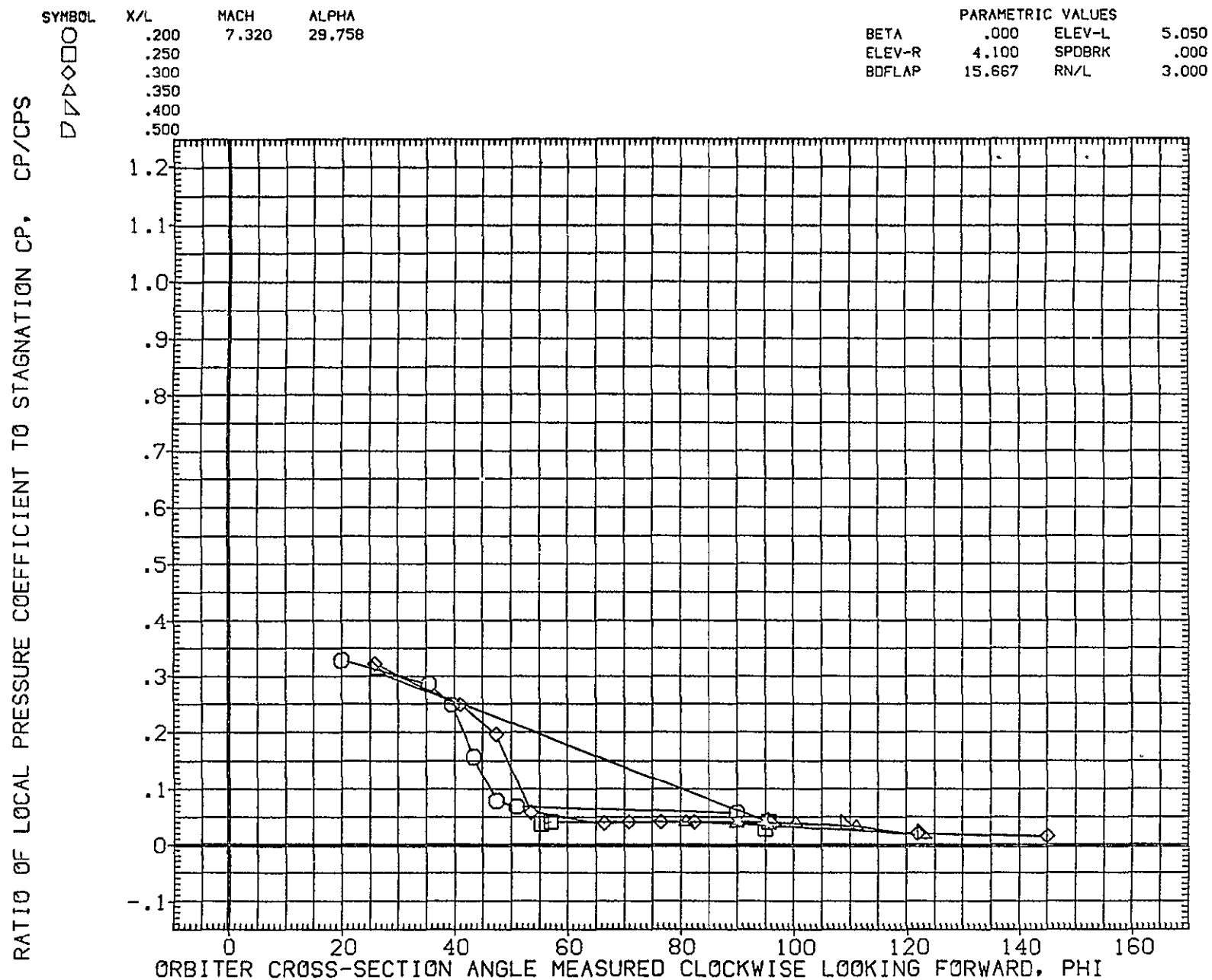


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

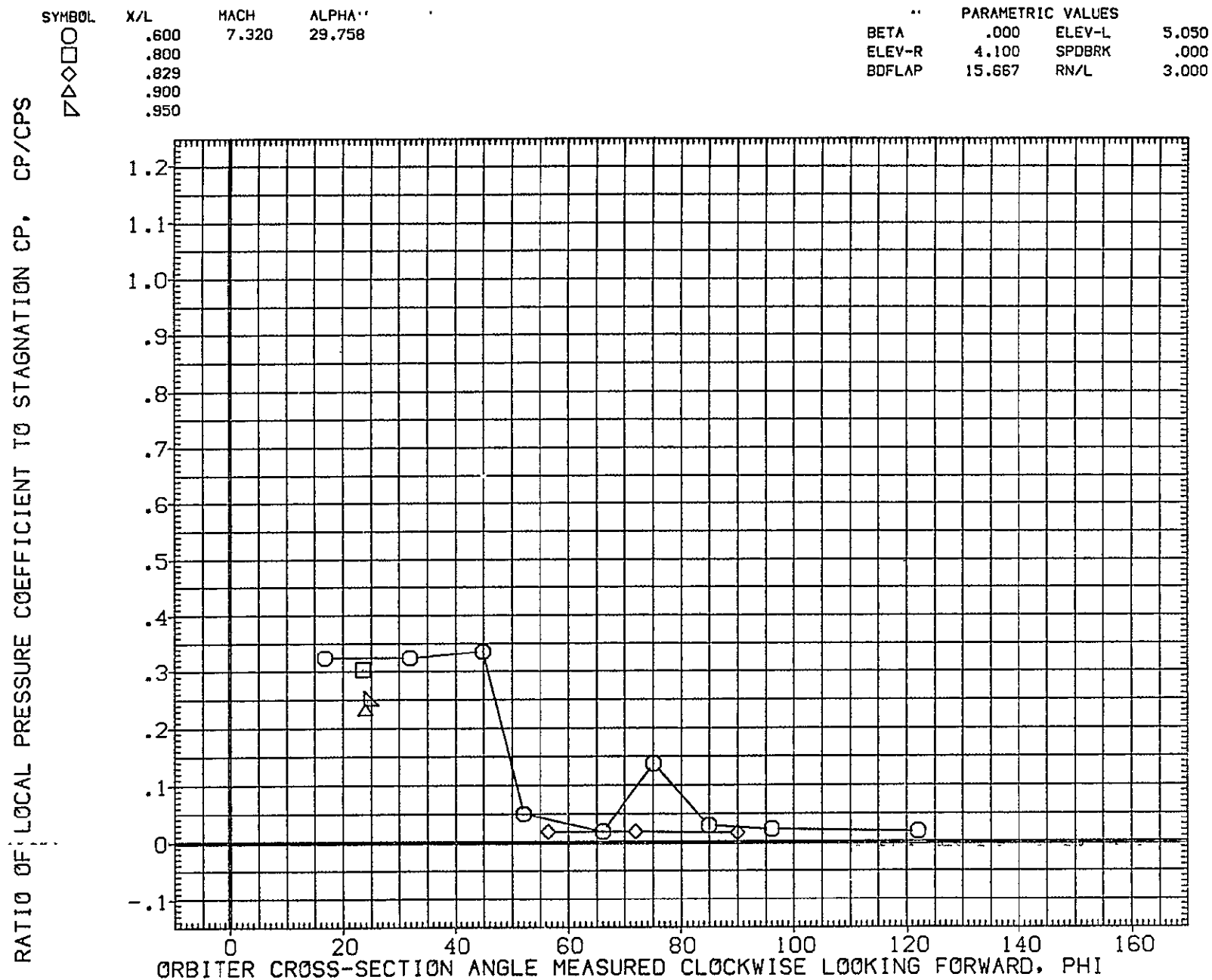


FIG. 12 FUSELAGE CROSS SECTIONS

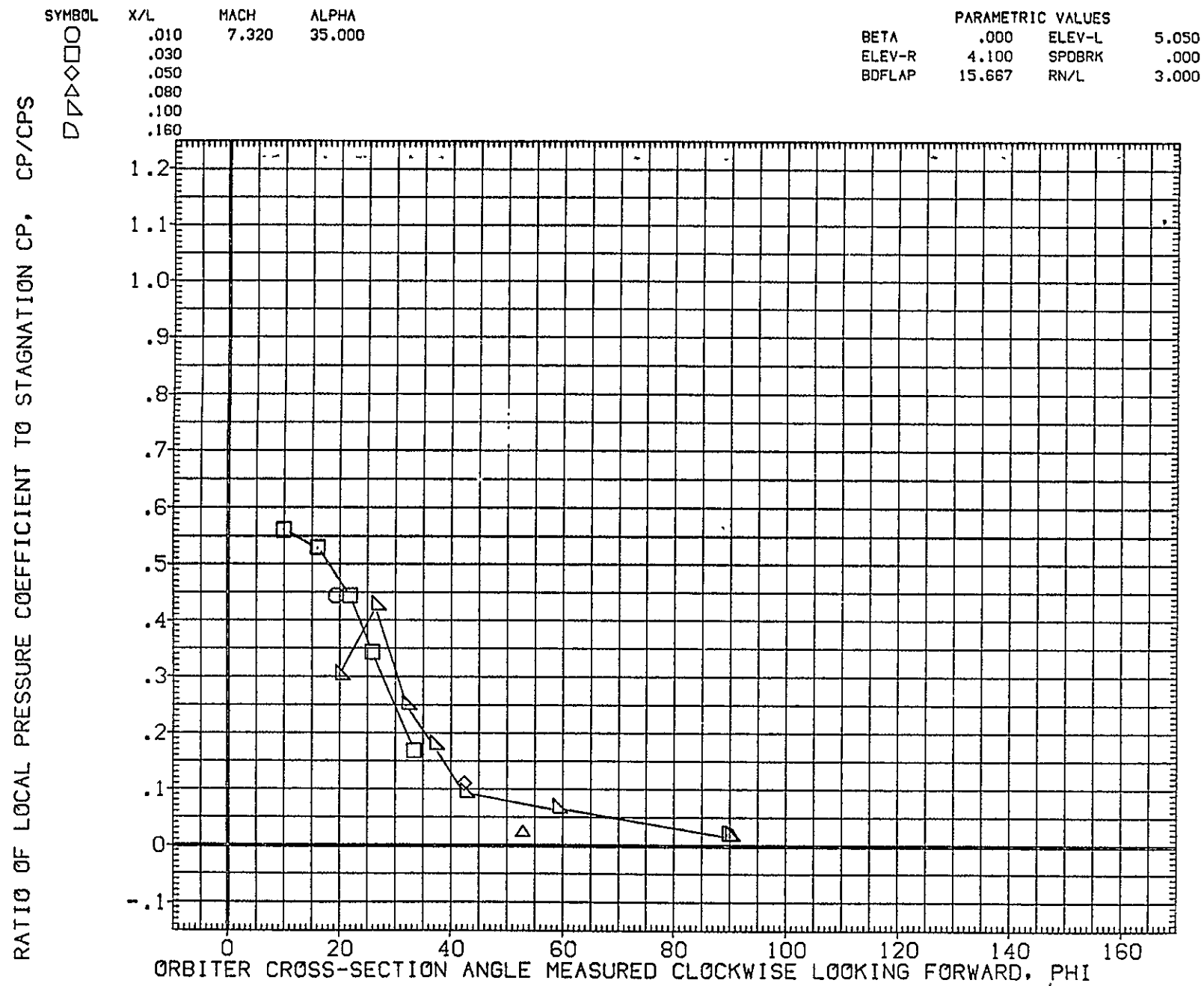


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

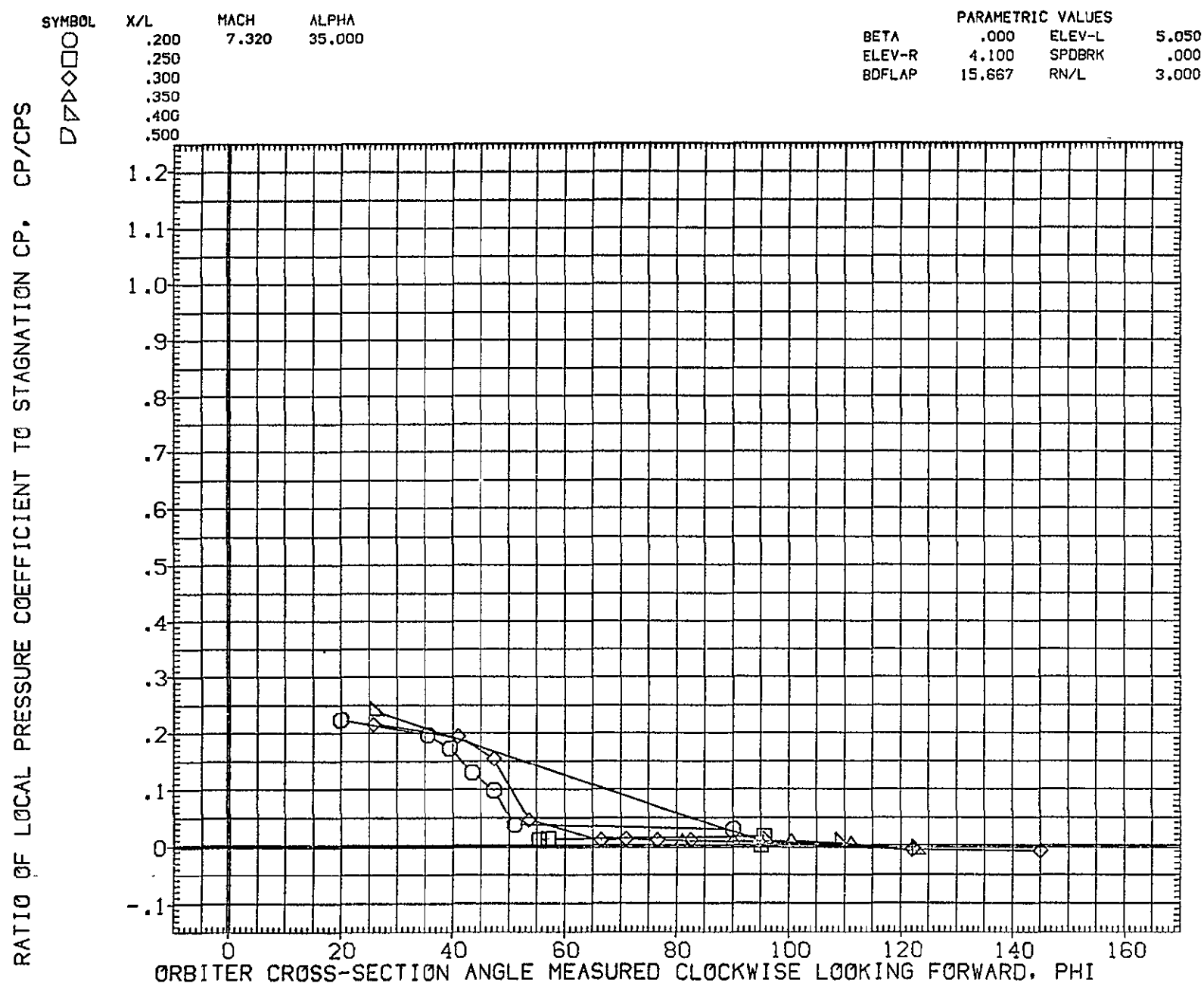


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

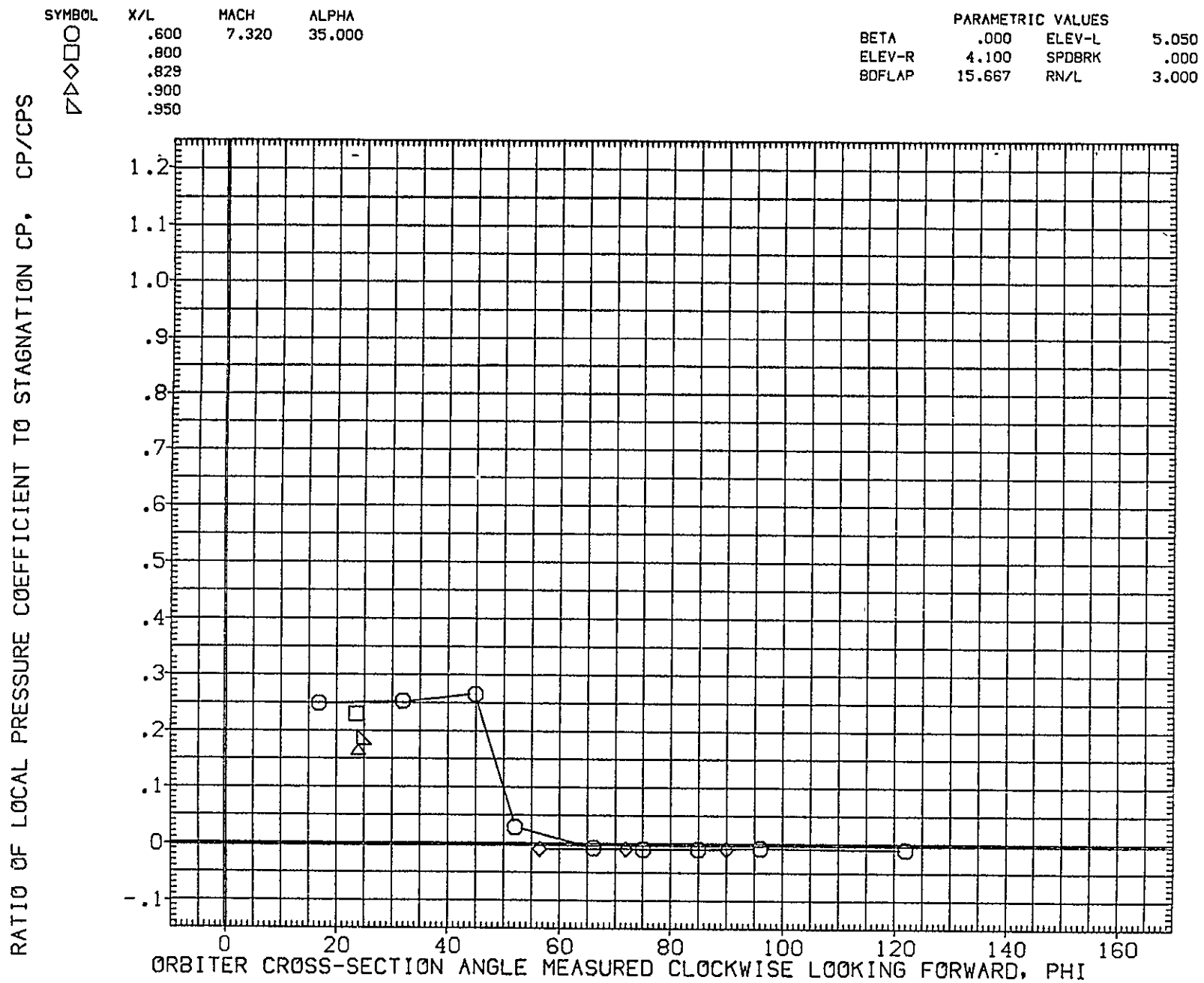


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

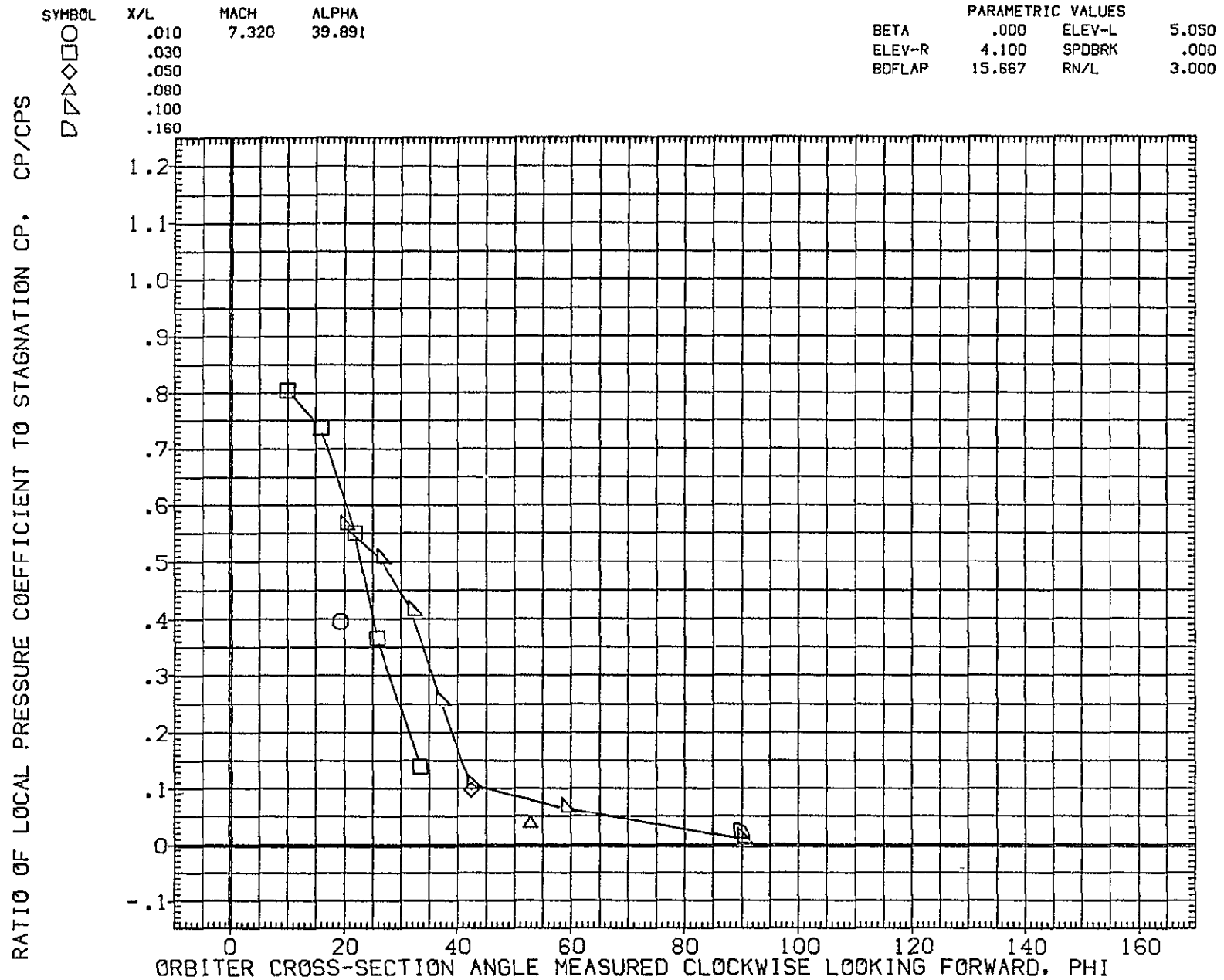
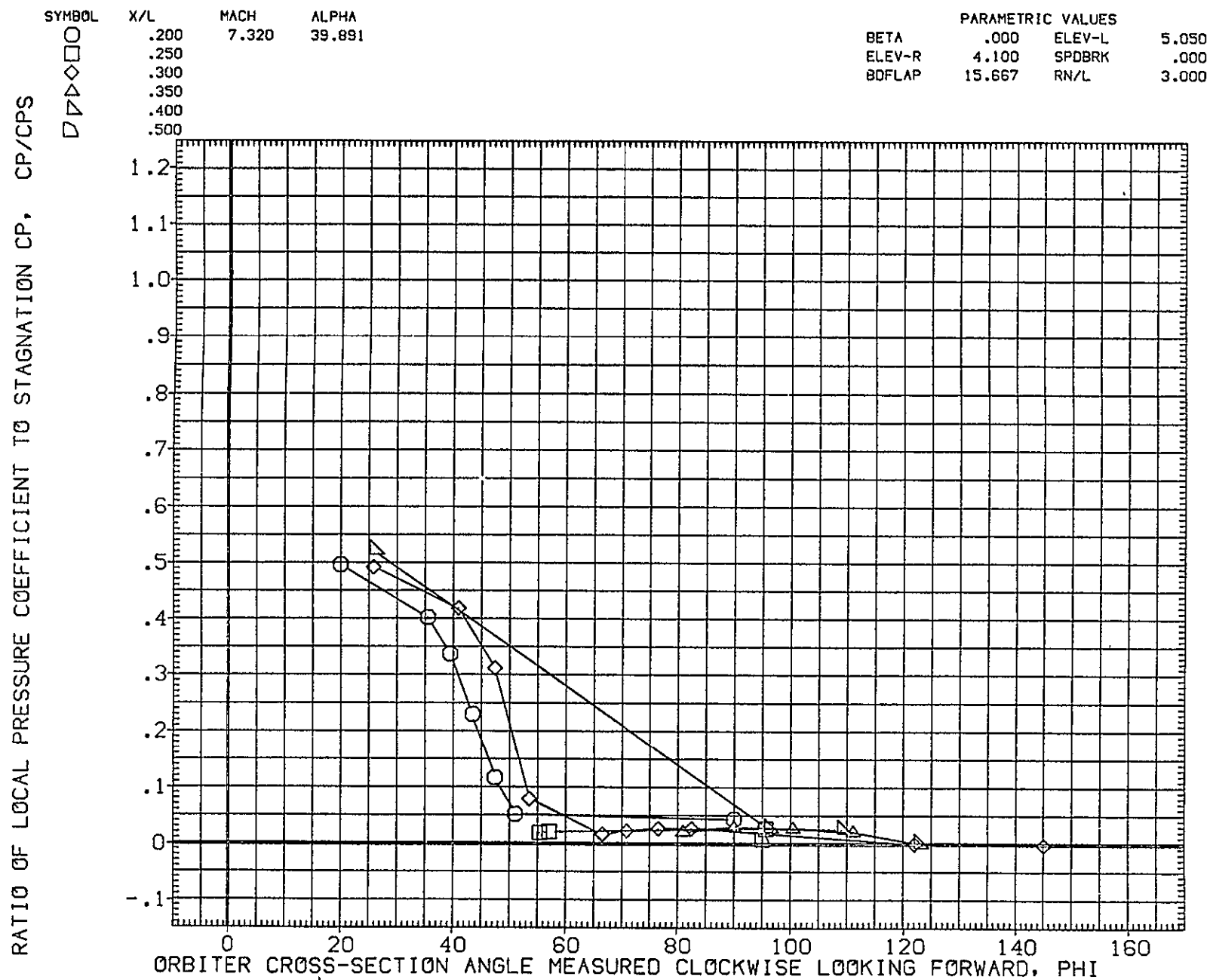


FIG. 12 FUSELAGE CROSS SECTIONS





# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

SYMBOL

○  
□  
◇  
△  
▽

X/L

MACH

ALPHA

.600  
.800  
.829  
.900  
.950

7.320

39.891

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

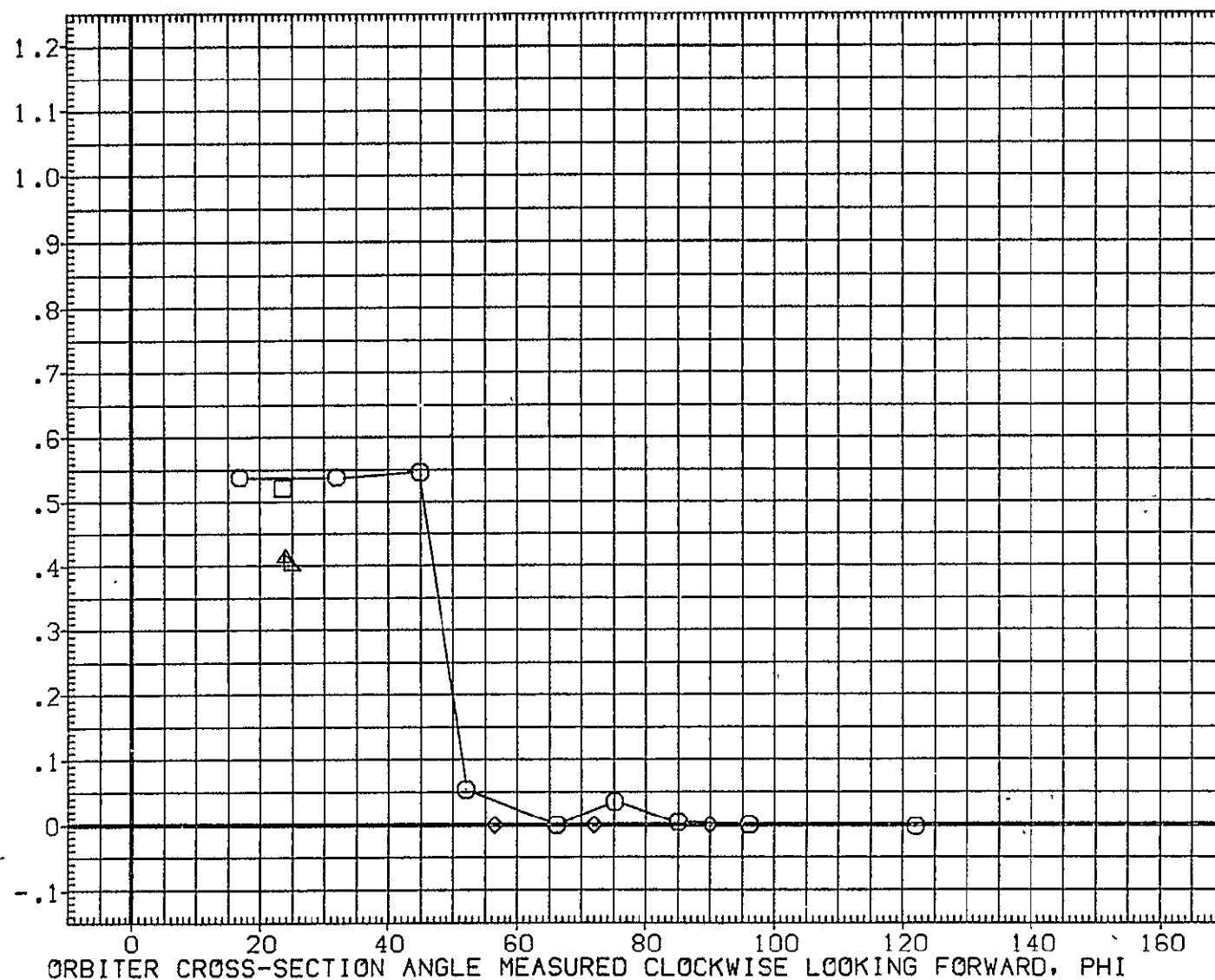


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

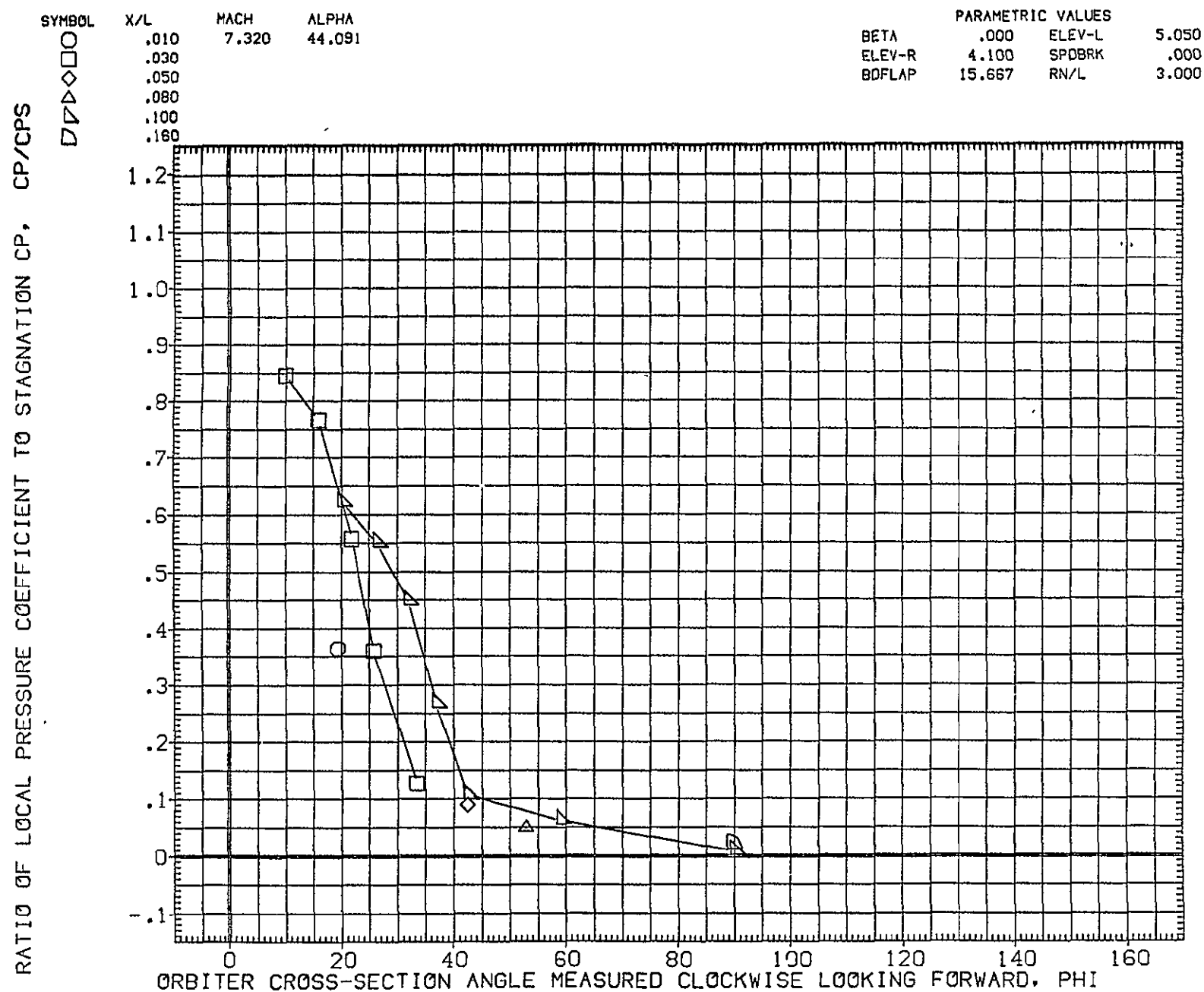


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

SYMBOL	X/L	MACH	ALPHA	PARAMETRIC VALUES			
				BETA	ELEV-L	ELEV-R	BDFLAP
○	.200	7.320	44.091	.000	5.050	.000	3.000
◇	.250			4.100			
△	.300			15.667			
▽	.350						
□	.400						
◇	.500						

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

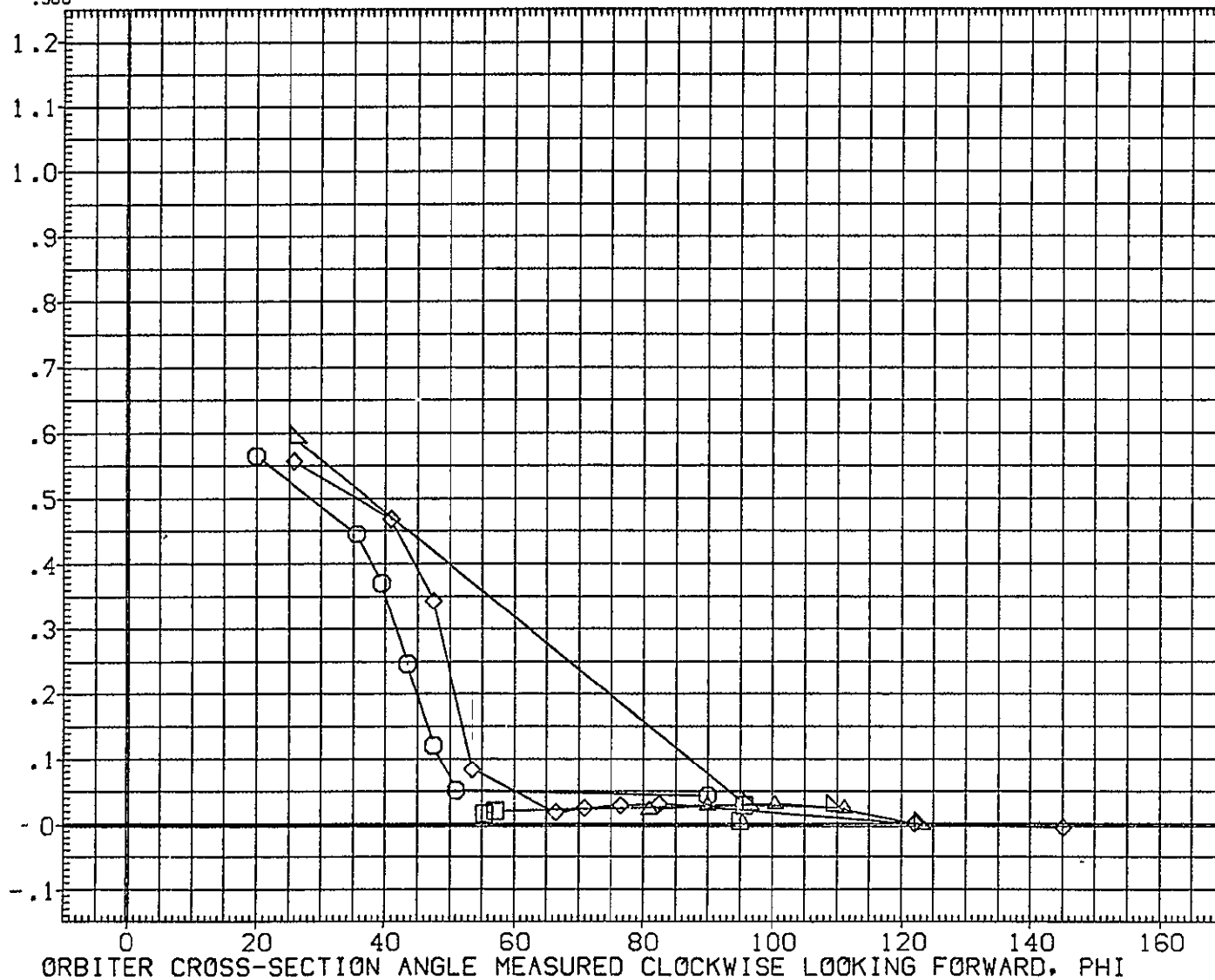


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

SYMBOL  
○  
□  
◇  
△  
▽

X/L      MACH      ALPHA  
.600      7.320      44.091  
.800  
.929  
.900  
.950

PARAMETRIC VALUES  
BETA      .000      ELEV-L      5.050  
ELEV-R      4.100      SPDBRK      .000  
BDFLAP      15.667      RN/L      3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

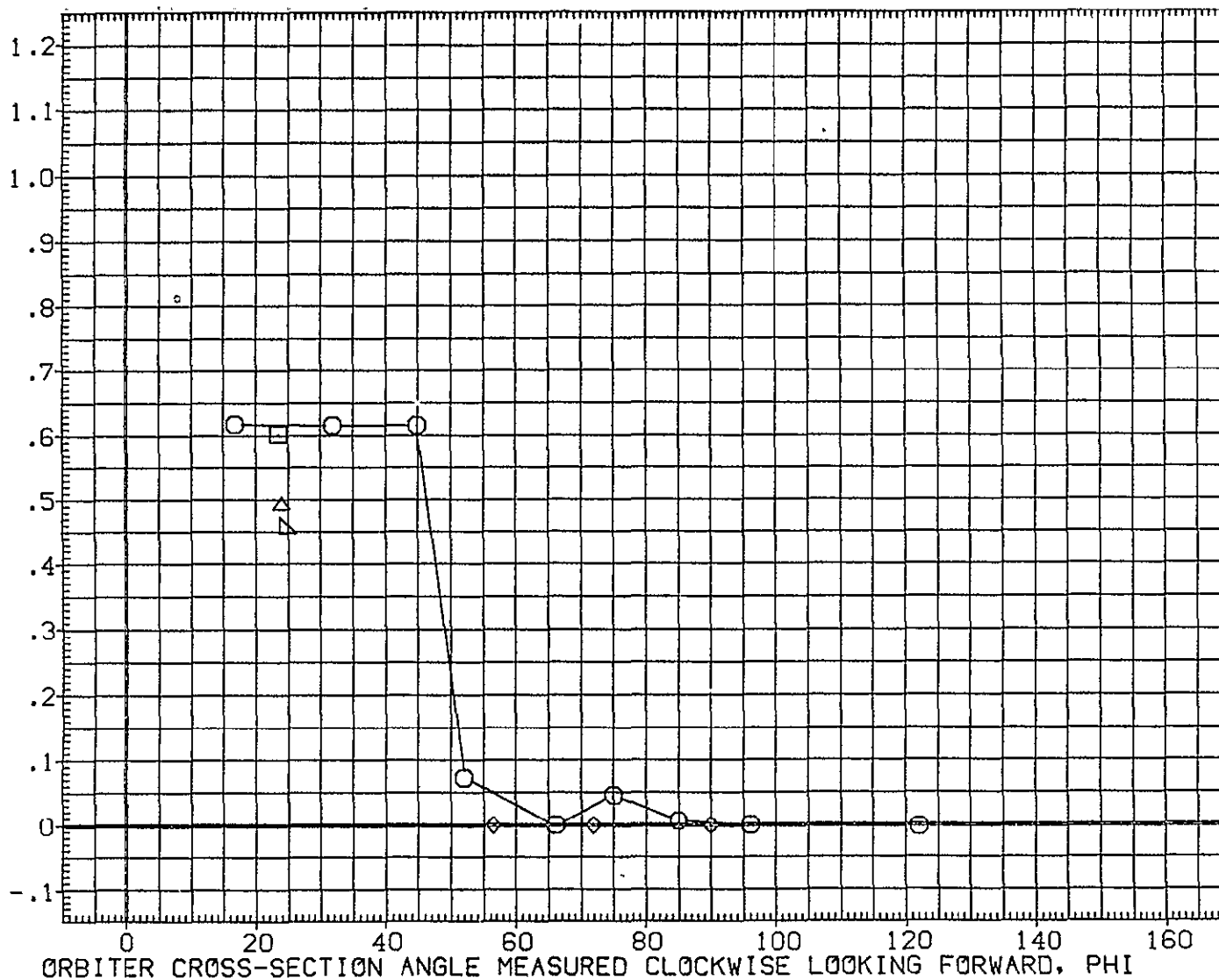


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ07)

SYMBOL

○ □ ◇ △ ▽

X/L  
.010  
.030  
.050  
.080  
.100  
.160

MACH  
7.320

ALPHA  
48.692

PARAMETRIC VALUES

BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

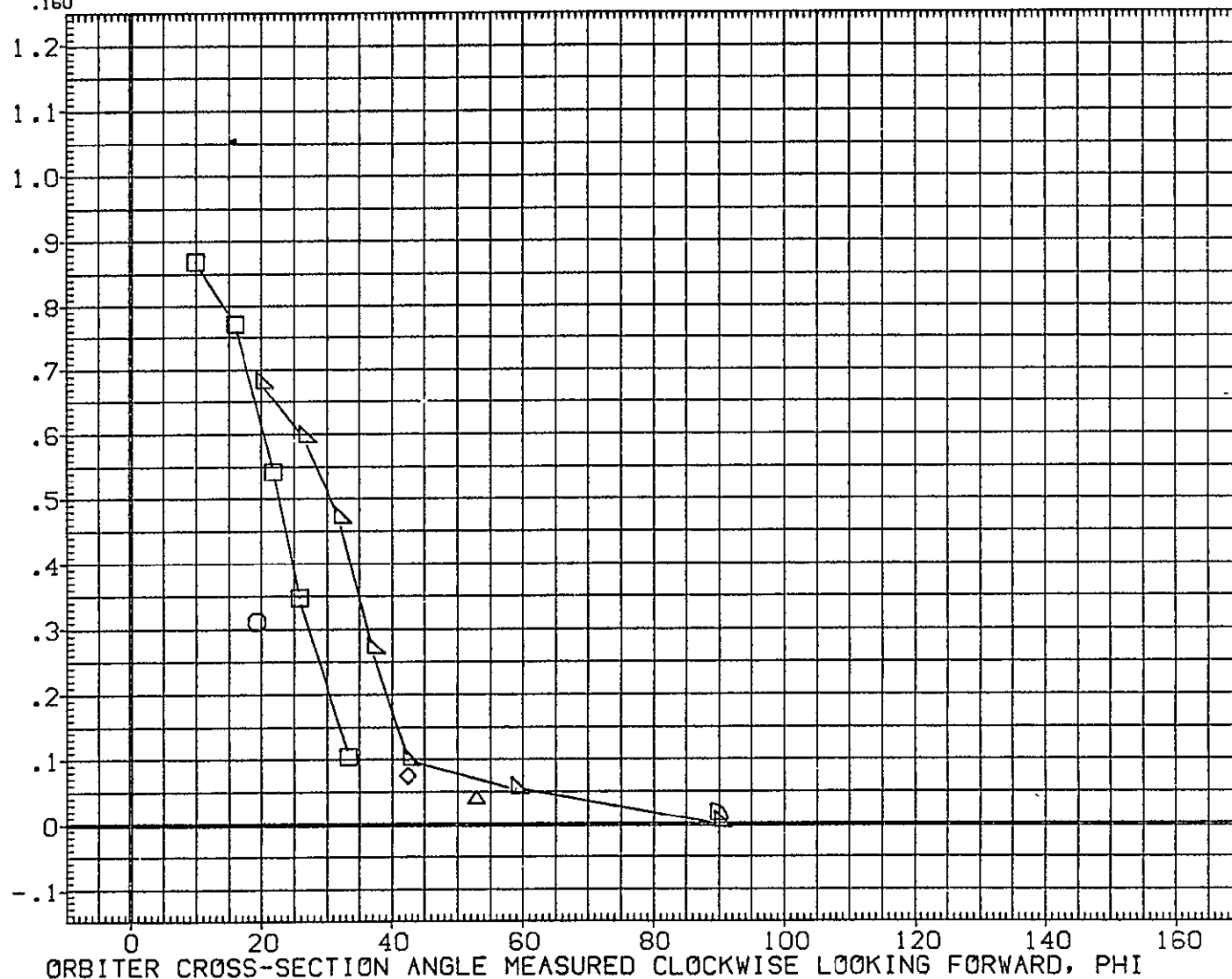


FIG. 12 FUSELAGE CROSS SECTIONS

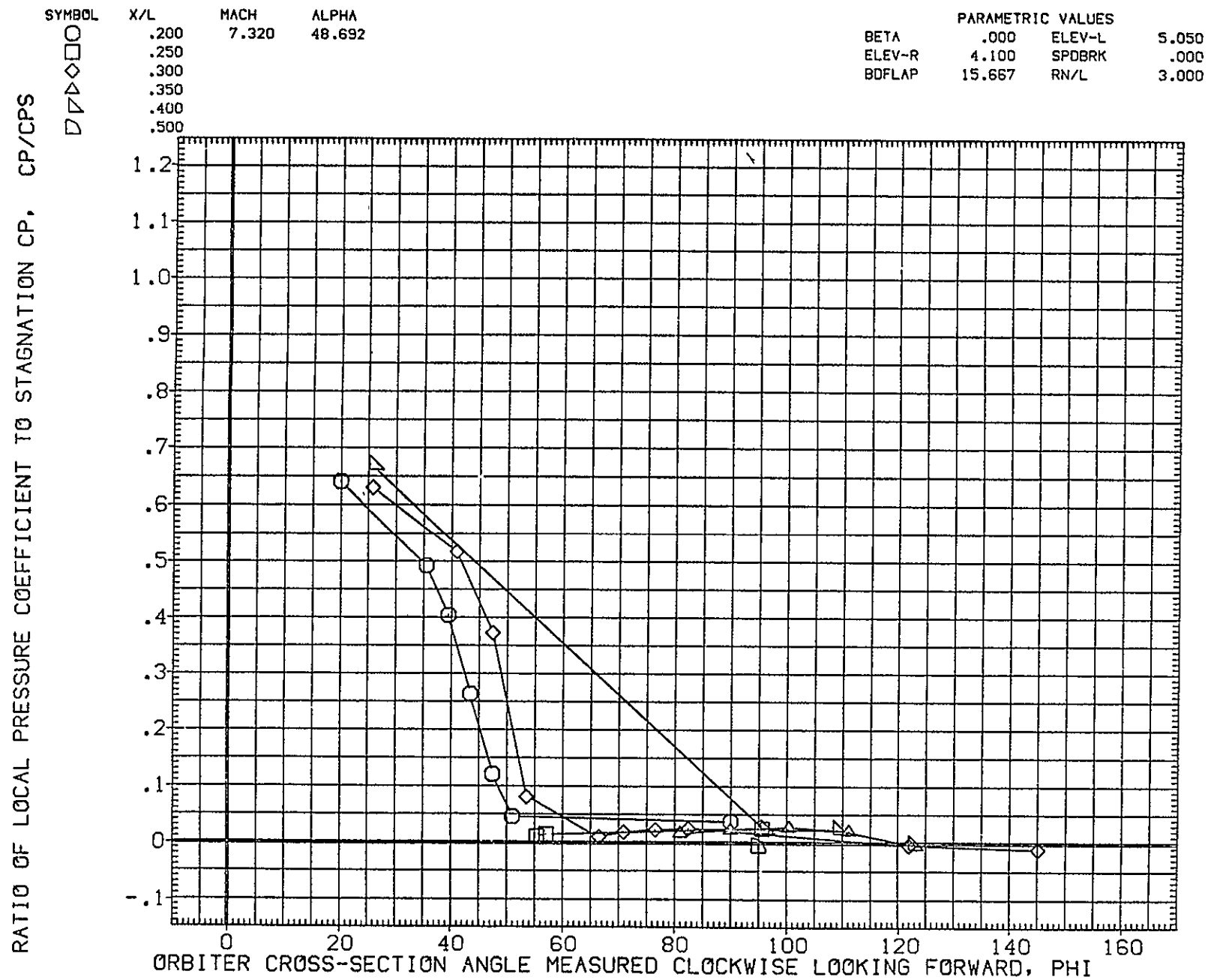


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJU7)

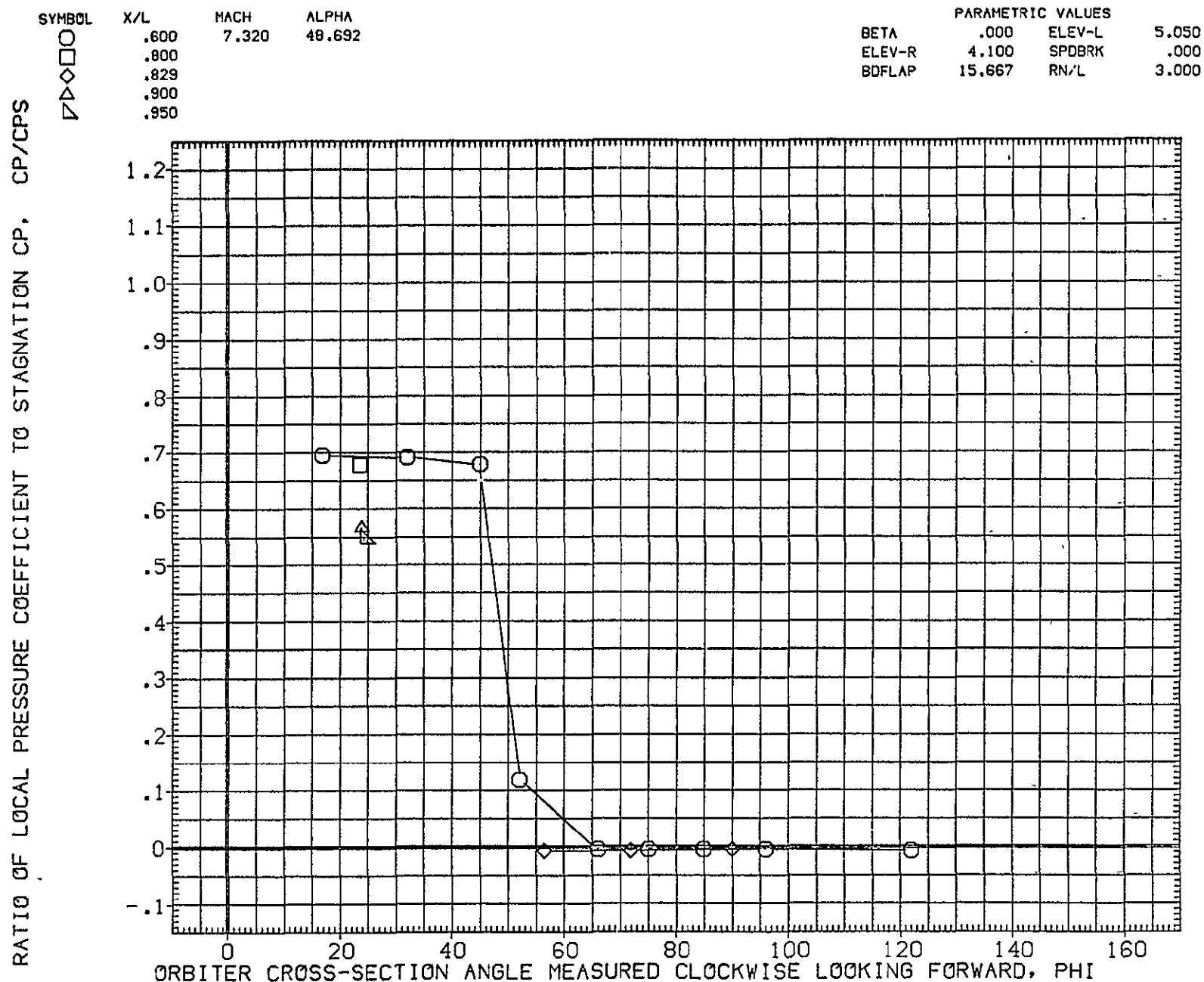


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

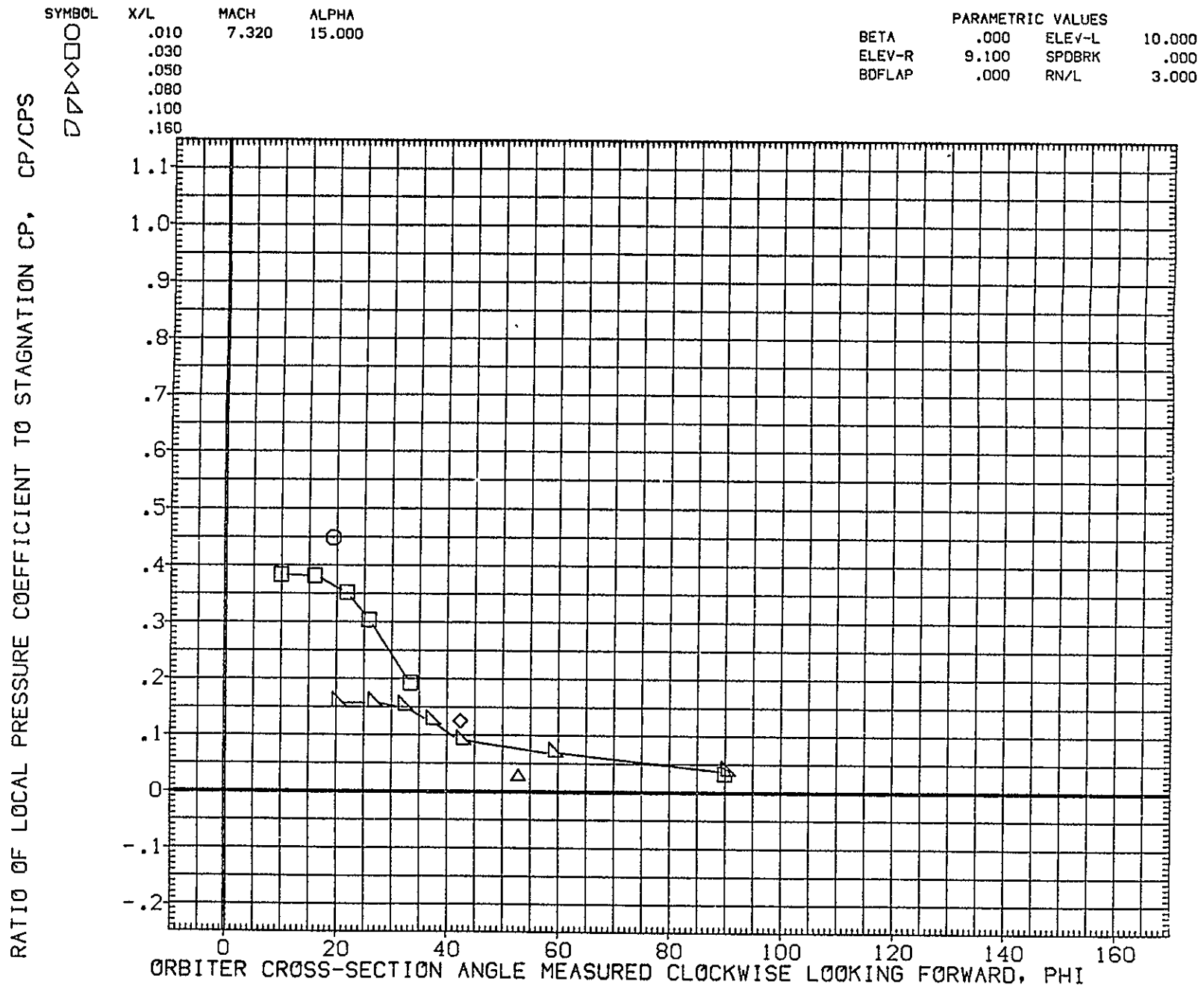


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

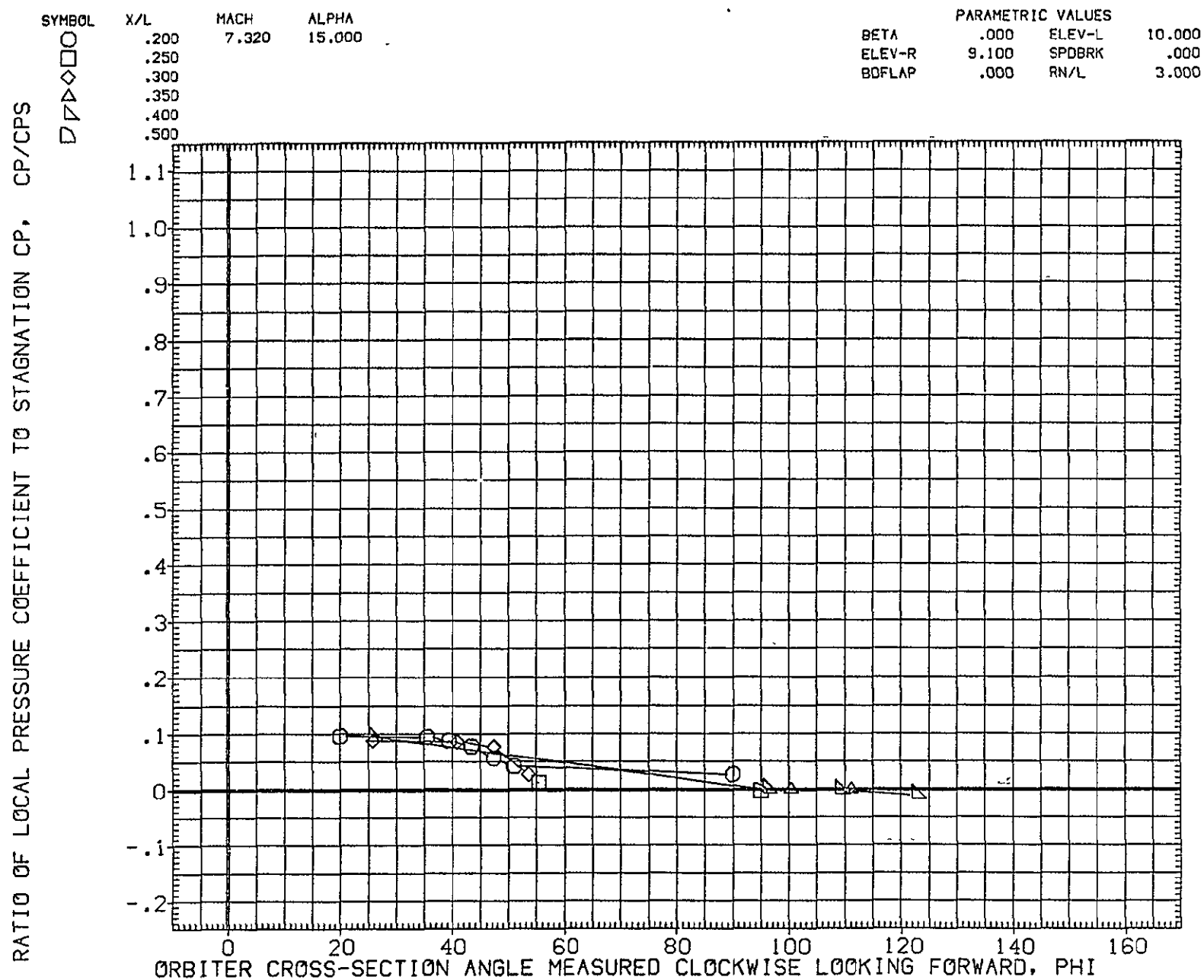


FIG. 12 FUSELAGE CROSS SECTIONS

SYMBOL	X/L	MACH	ALPHA
○	.600	7.320	15.000
□	.800		
◇	.829		
△	.900		
▽	.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

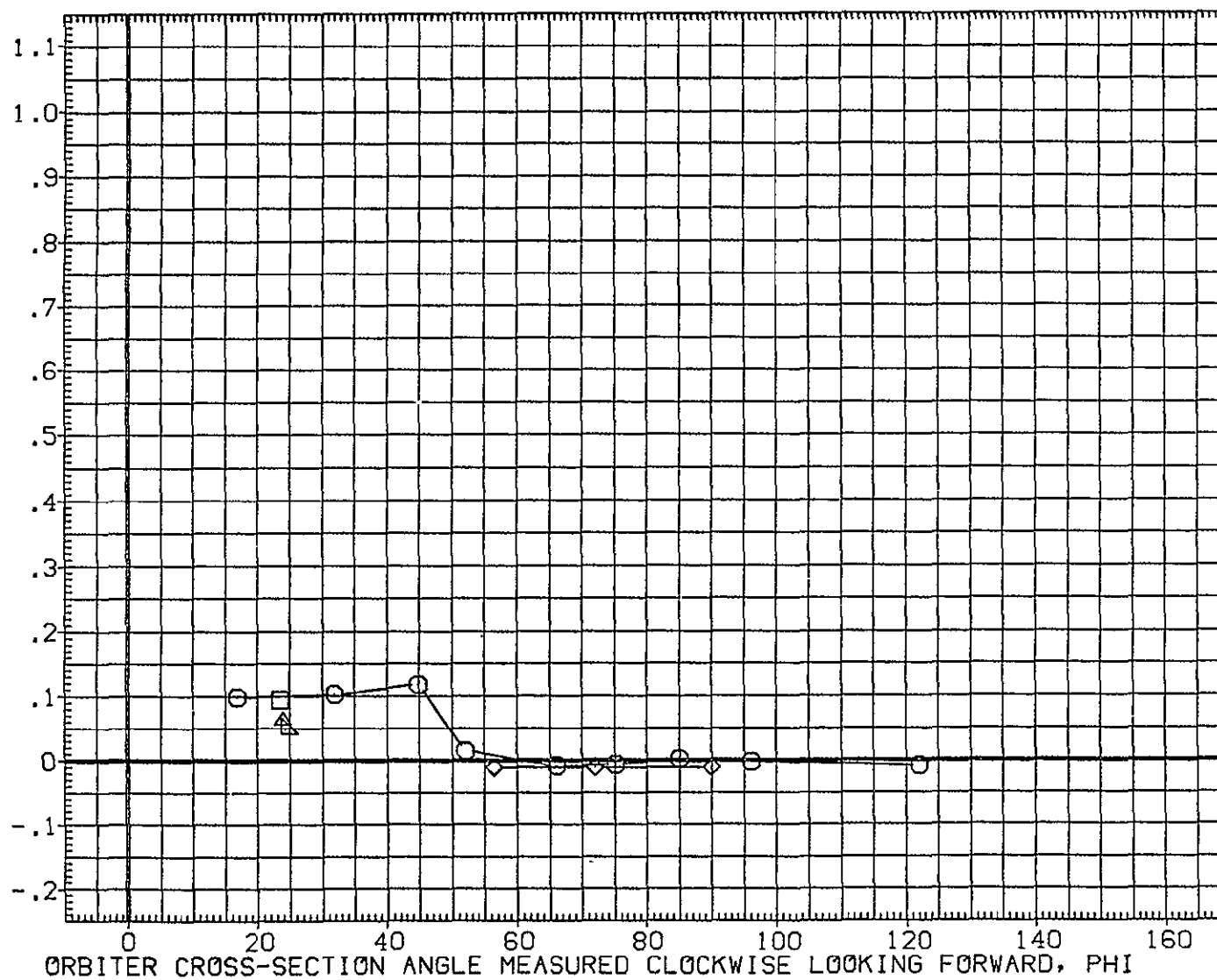
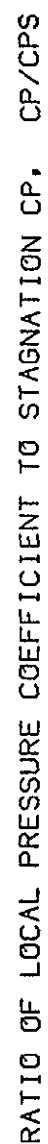


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

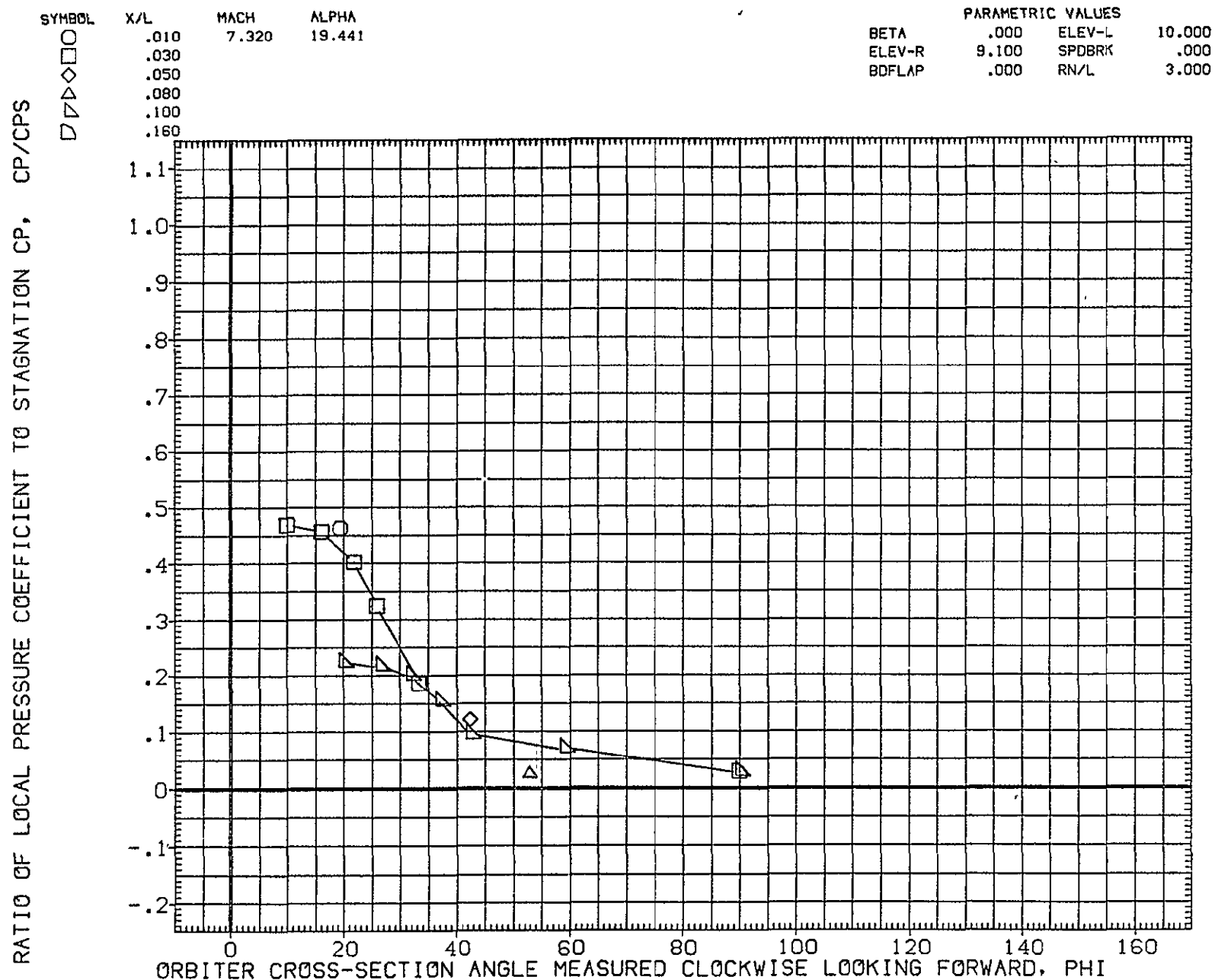


FIG. 12 FUSELAGE CROSS SECTIONS

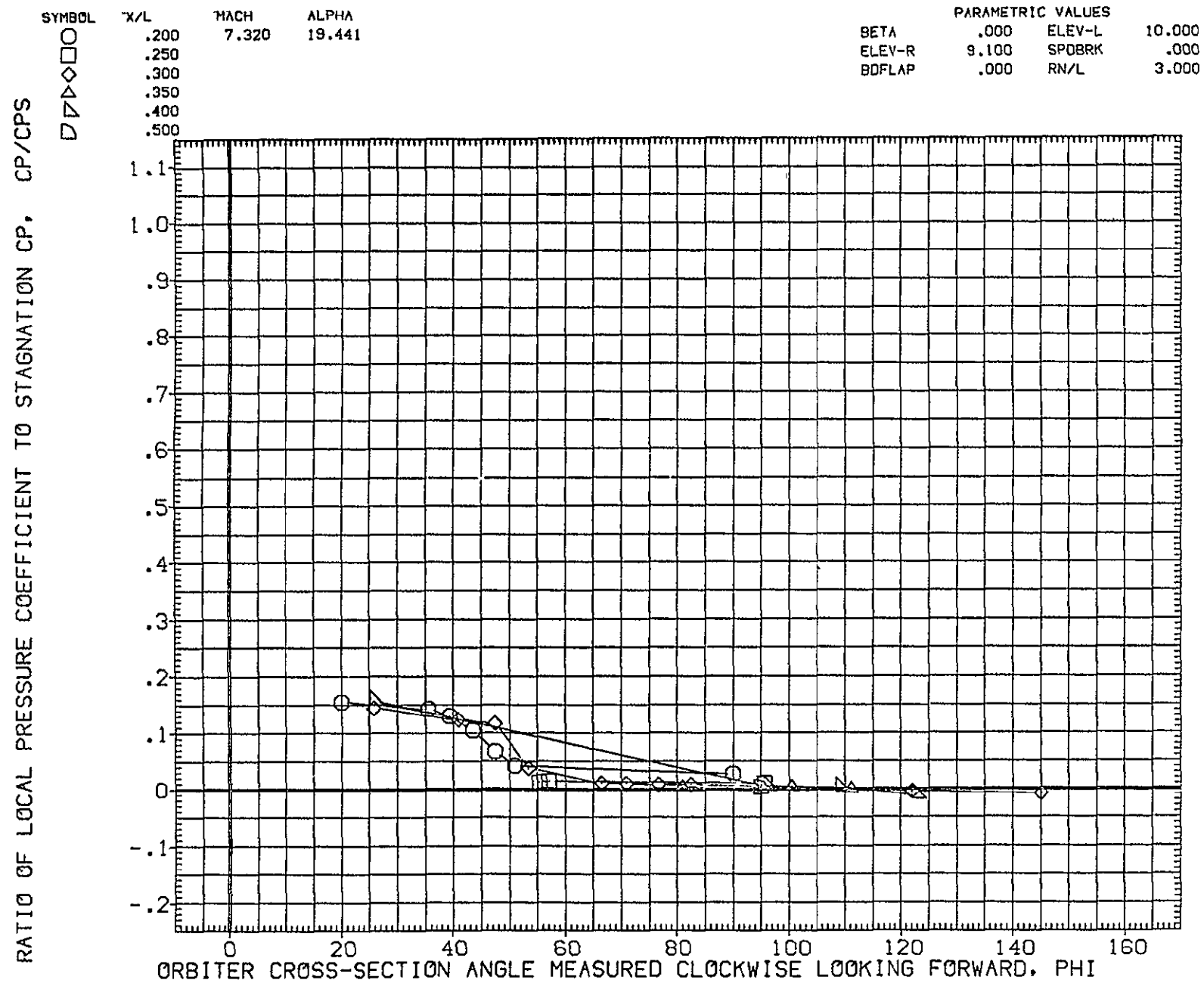


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

SYMBOL

○  
□  
◇  
△

X/L

.600  
.800  
.829  
.900  
.950

MACH

7.320

ALPHA

19.441

PARAMETRIC VALUES

BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

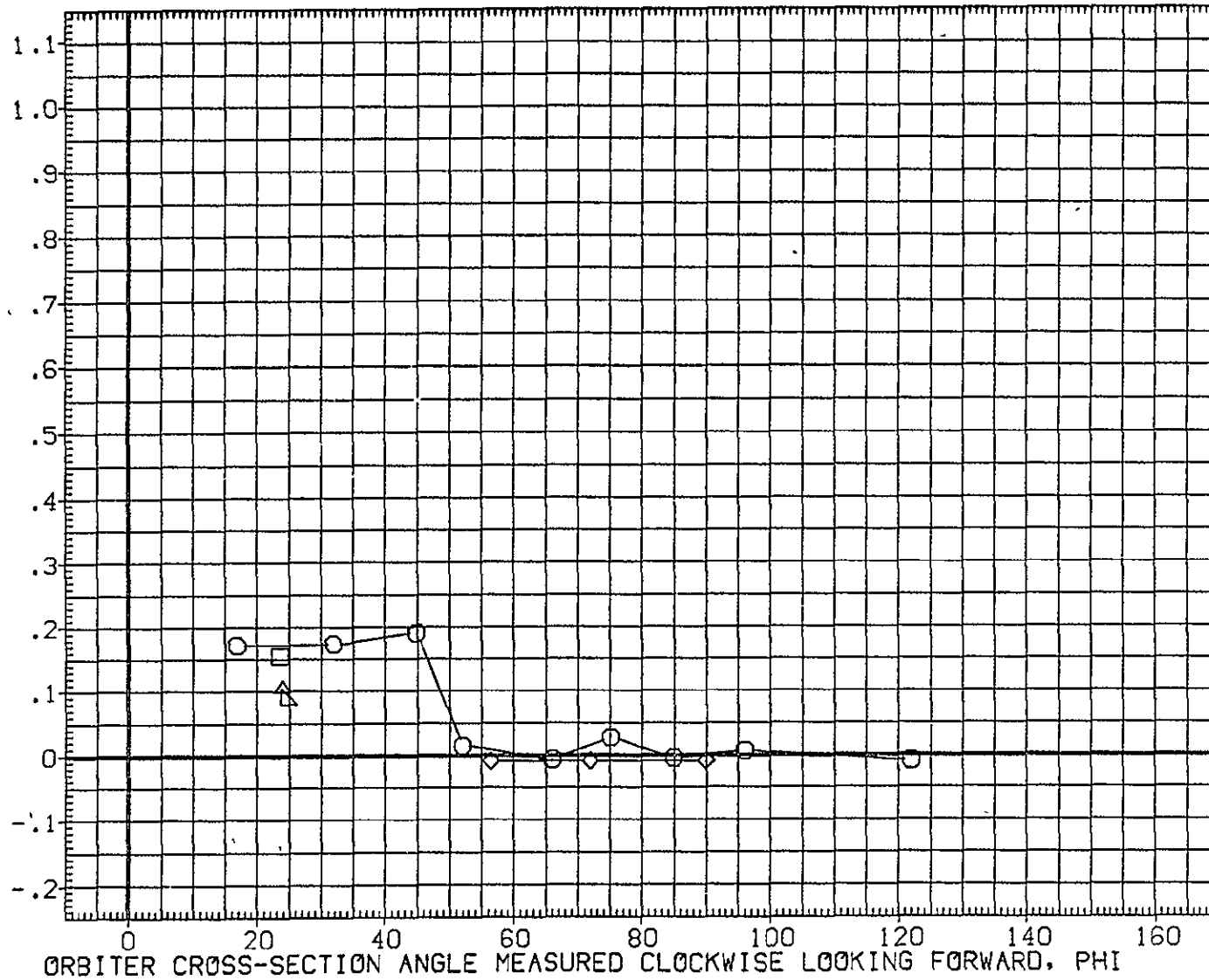


FIG. 12 FUSELAGE CROSS SECTIONS

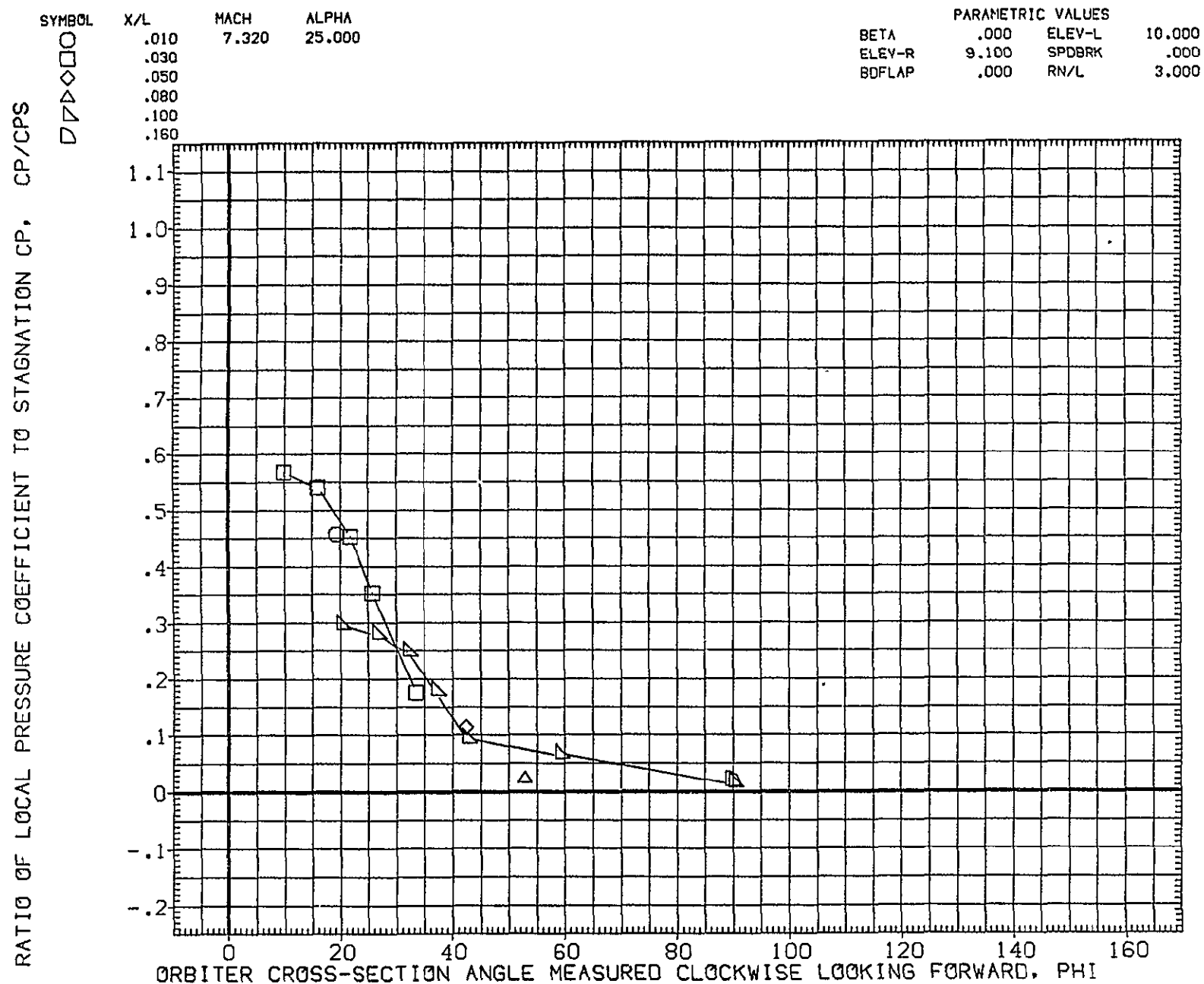


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

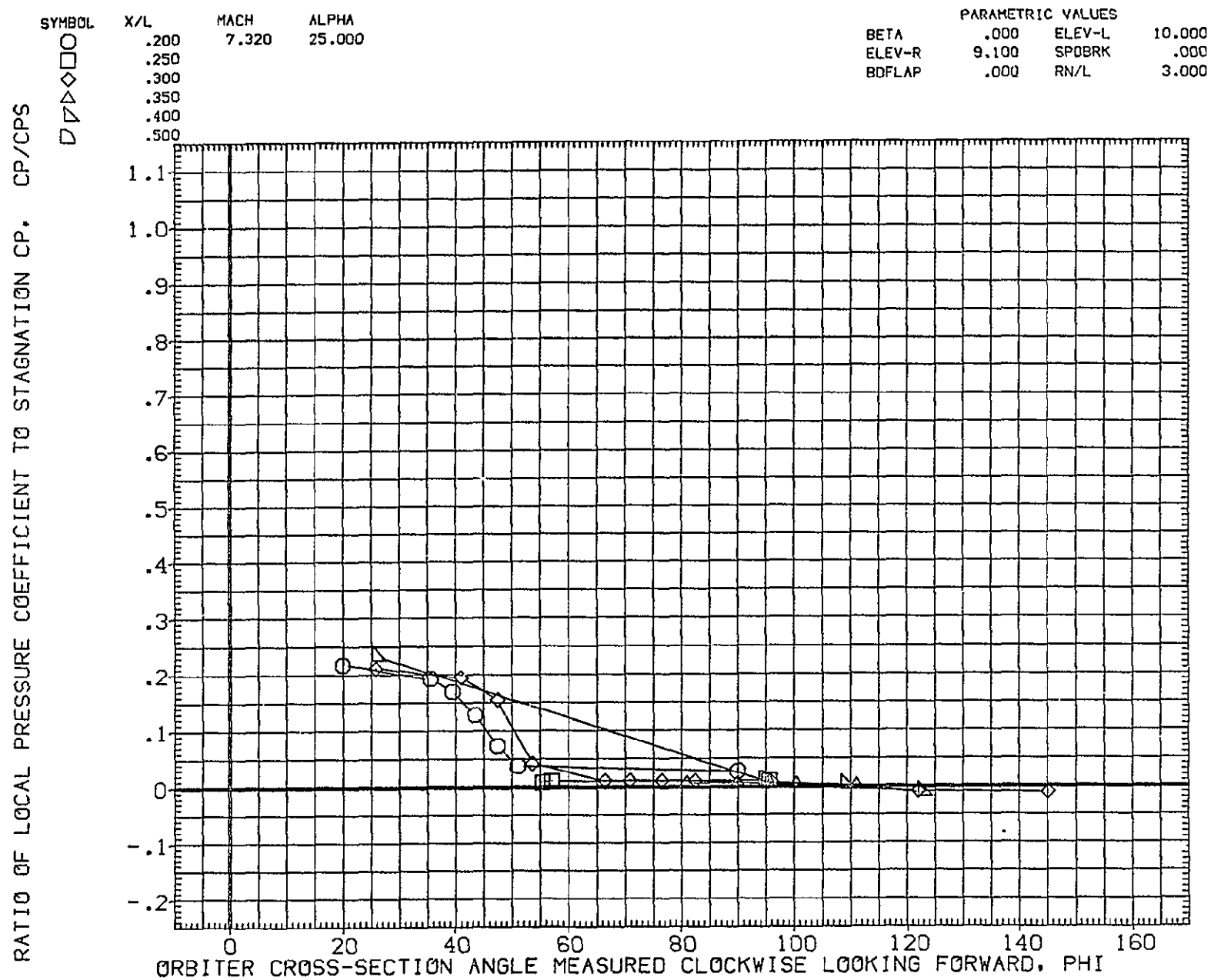


FIG. 12 FUSELAGE CROSS SECTIONS

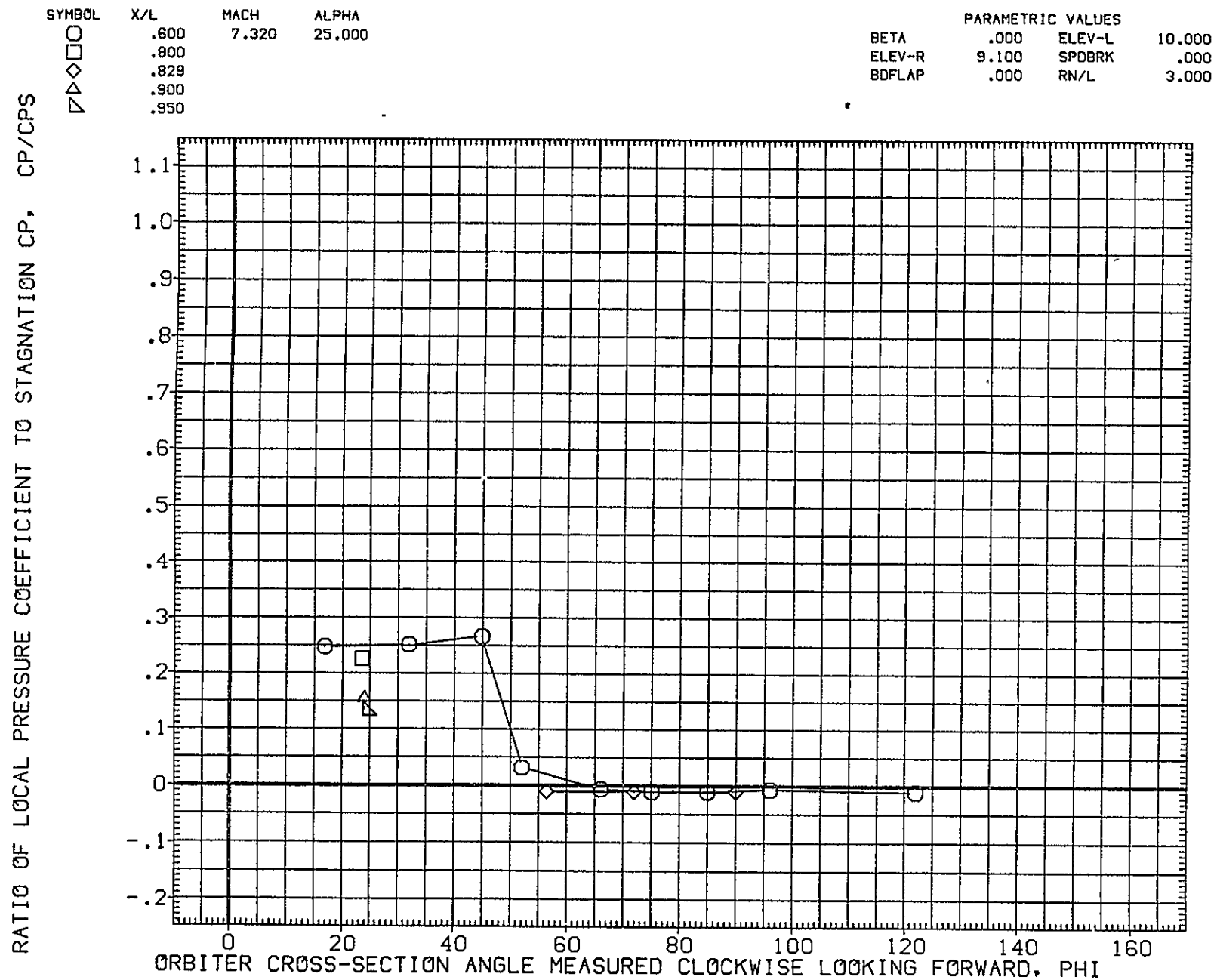


FIG. 12 FUSELAGE CROSS SECTIONS



ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (PEZJ11)

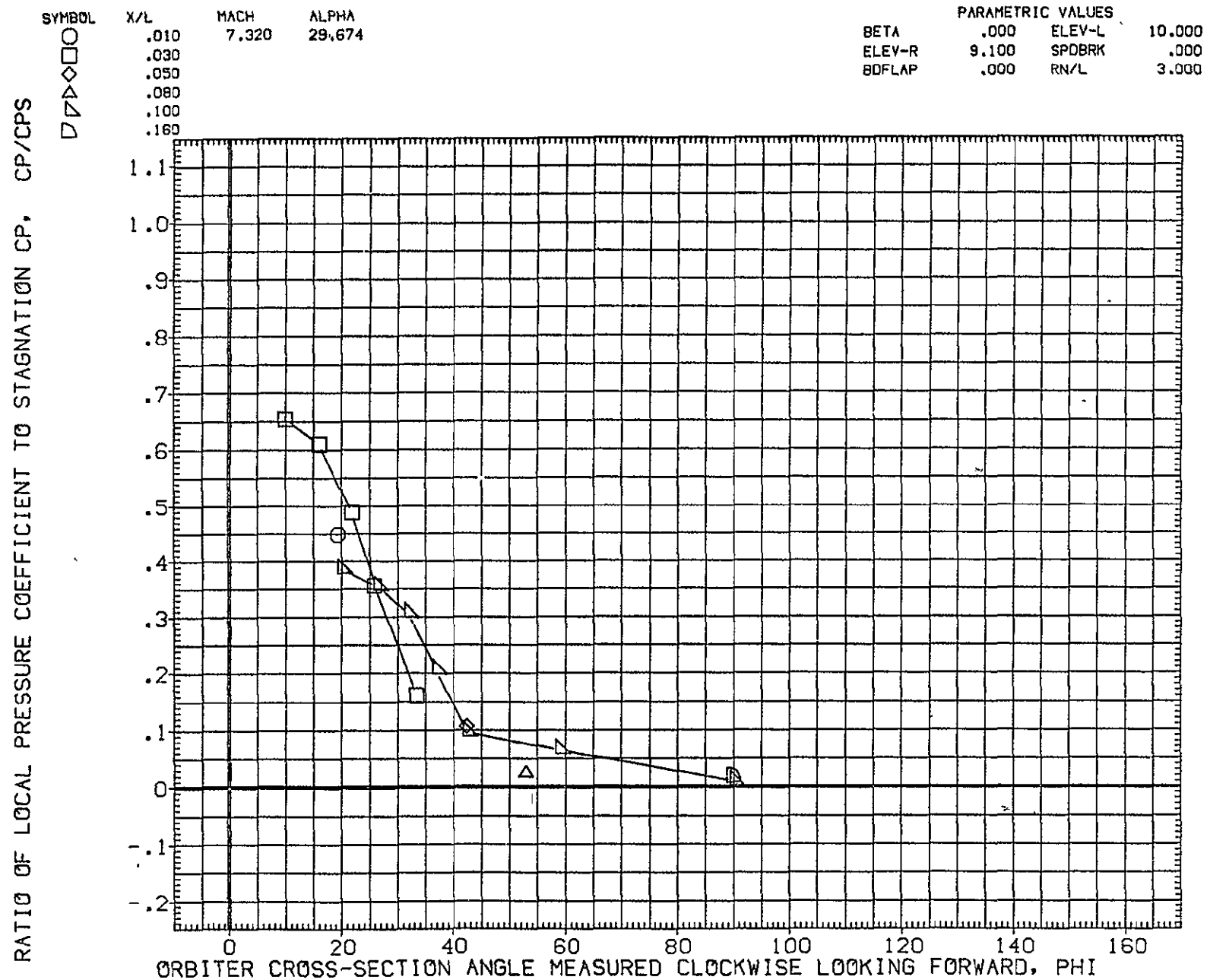


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

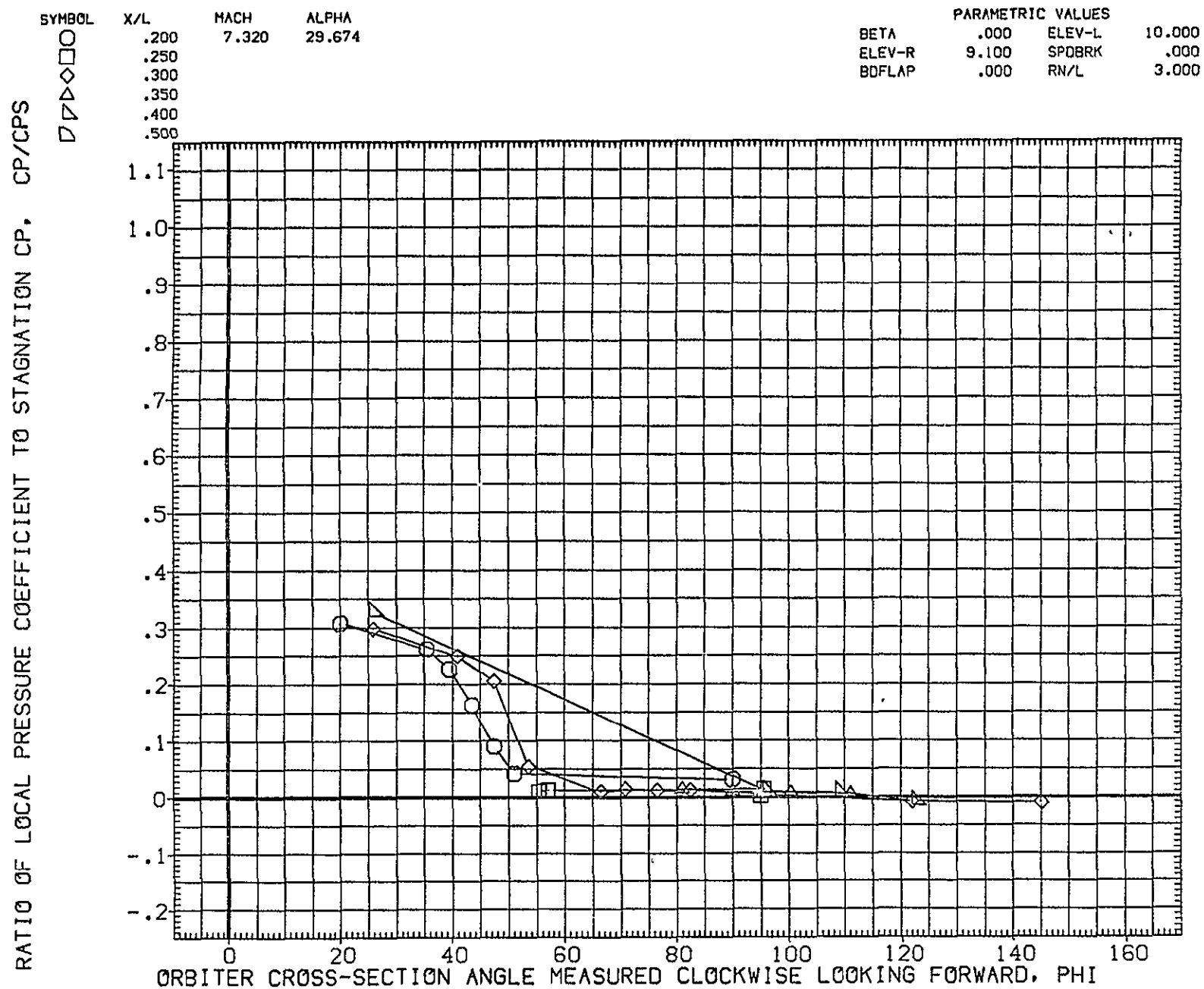


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

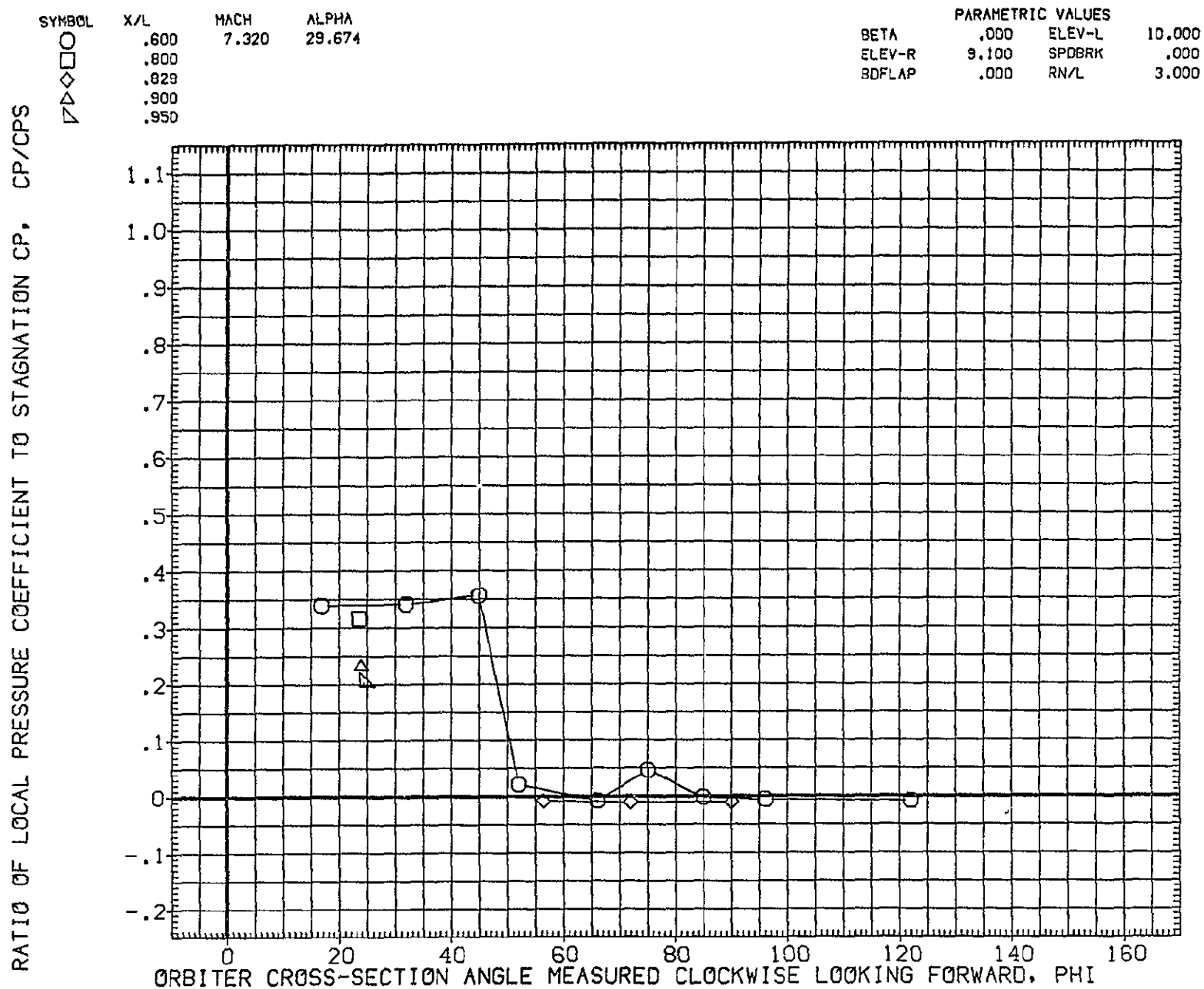


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

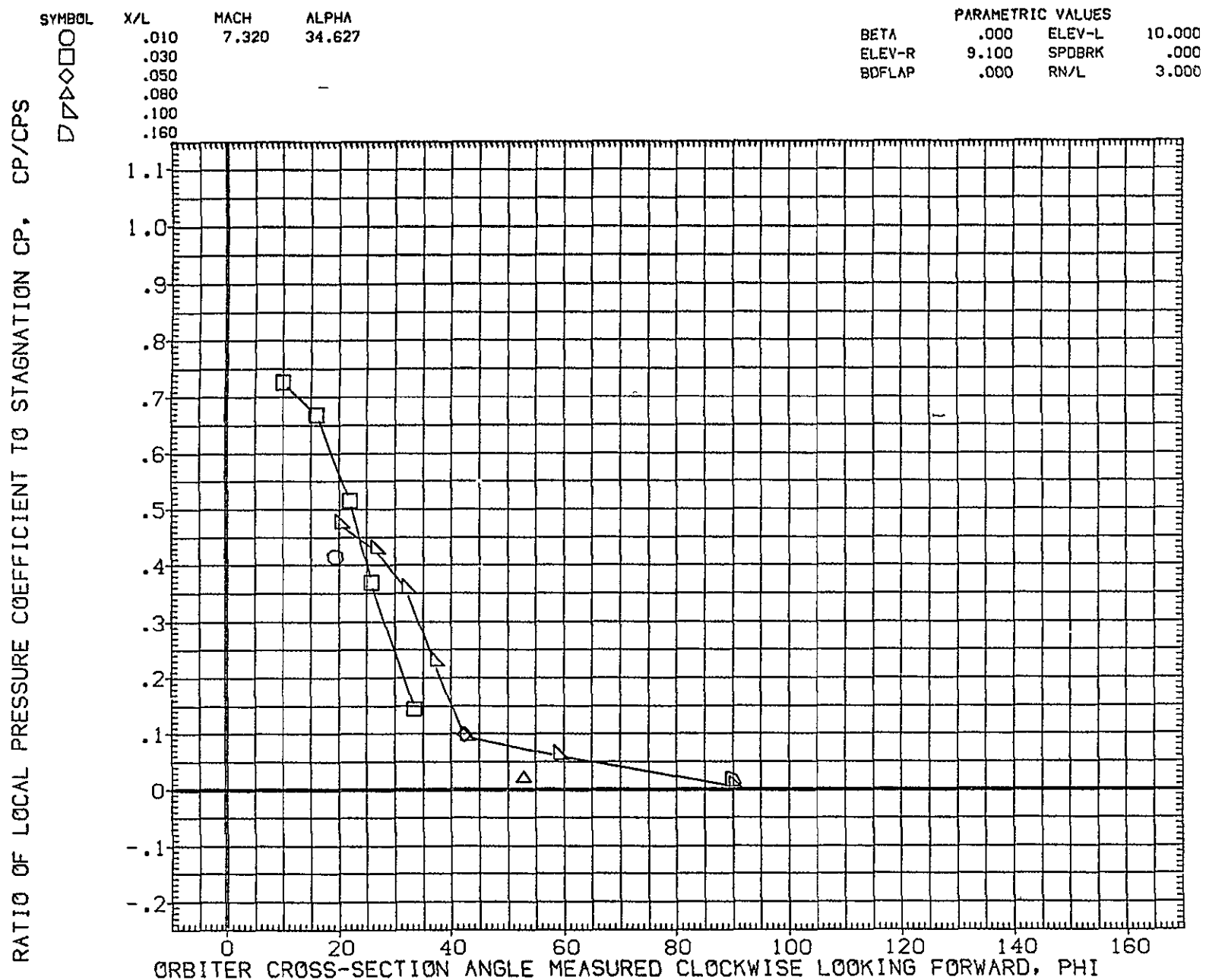


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

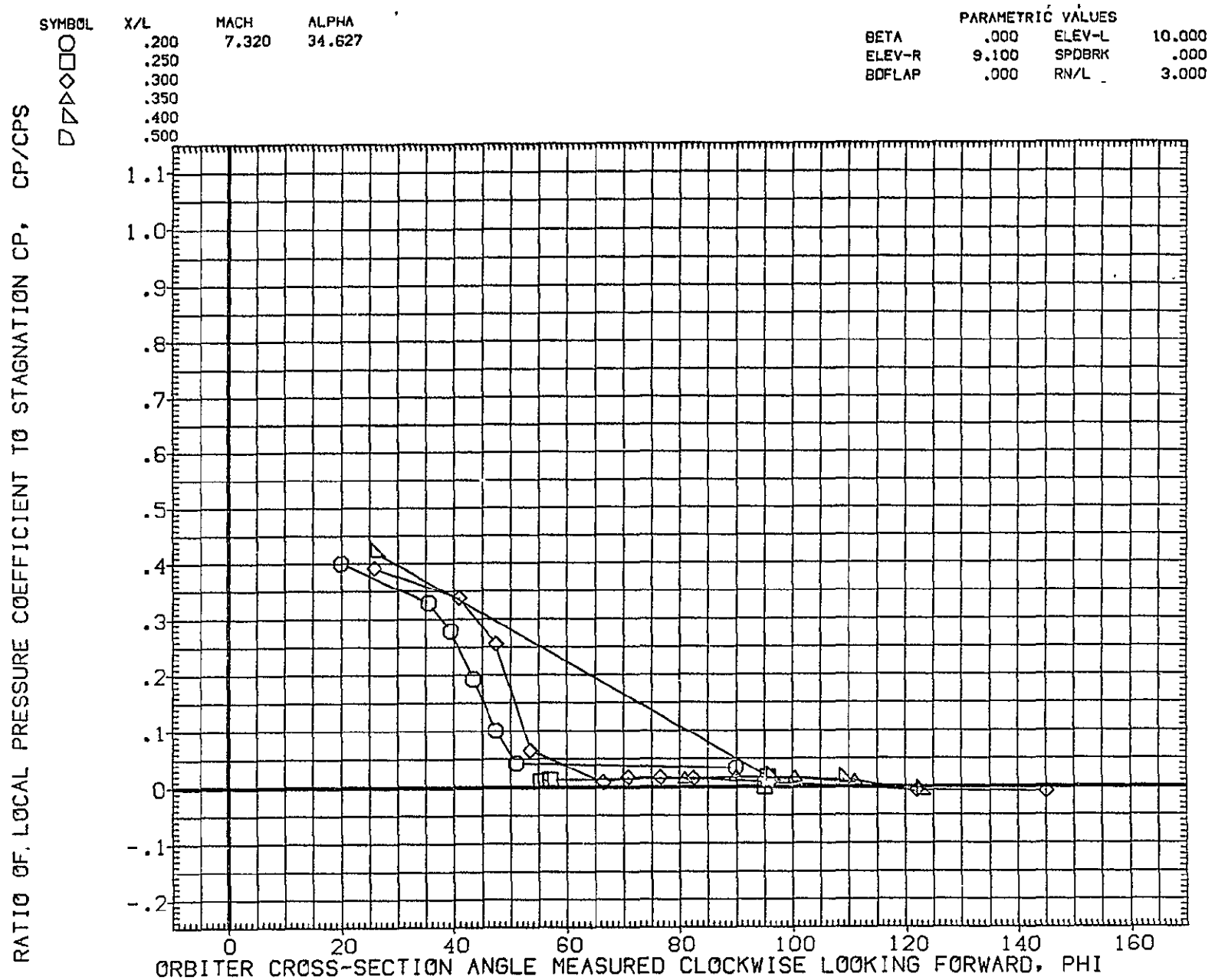


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C ORB FUSELAGE CROSS SECT. (PEZJ11)

SYMBOL  
○  
□  
◇  
△  
▽

X/L	MACH	ALPHA
.600	7.320	34.627
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

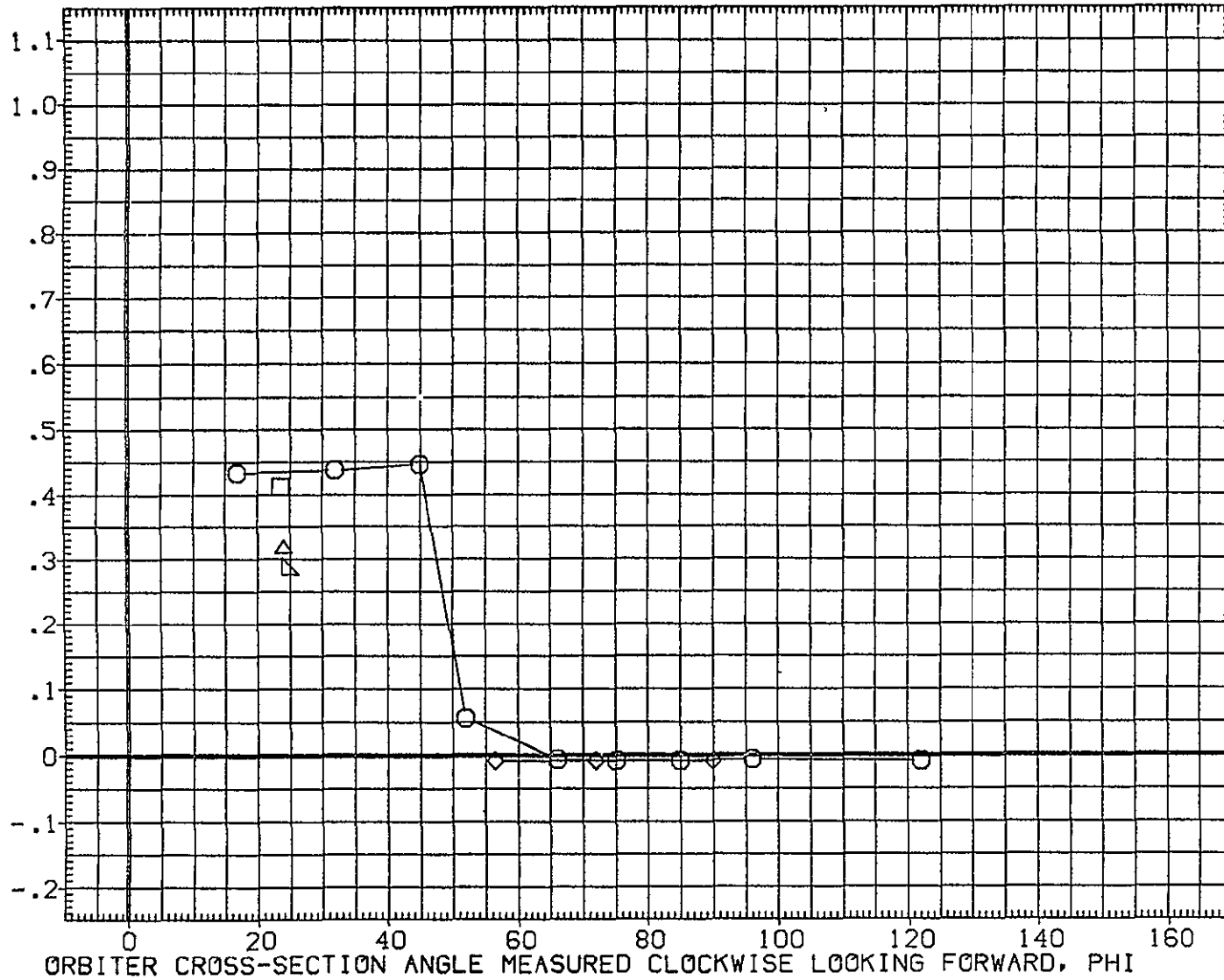


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

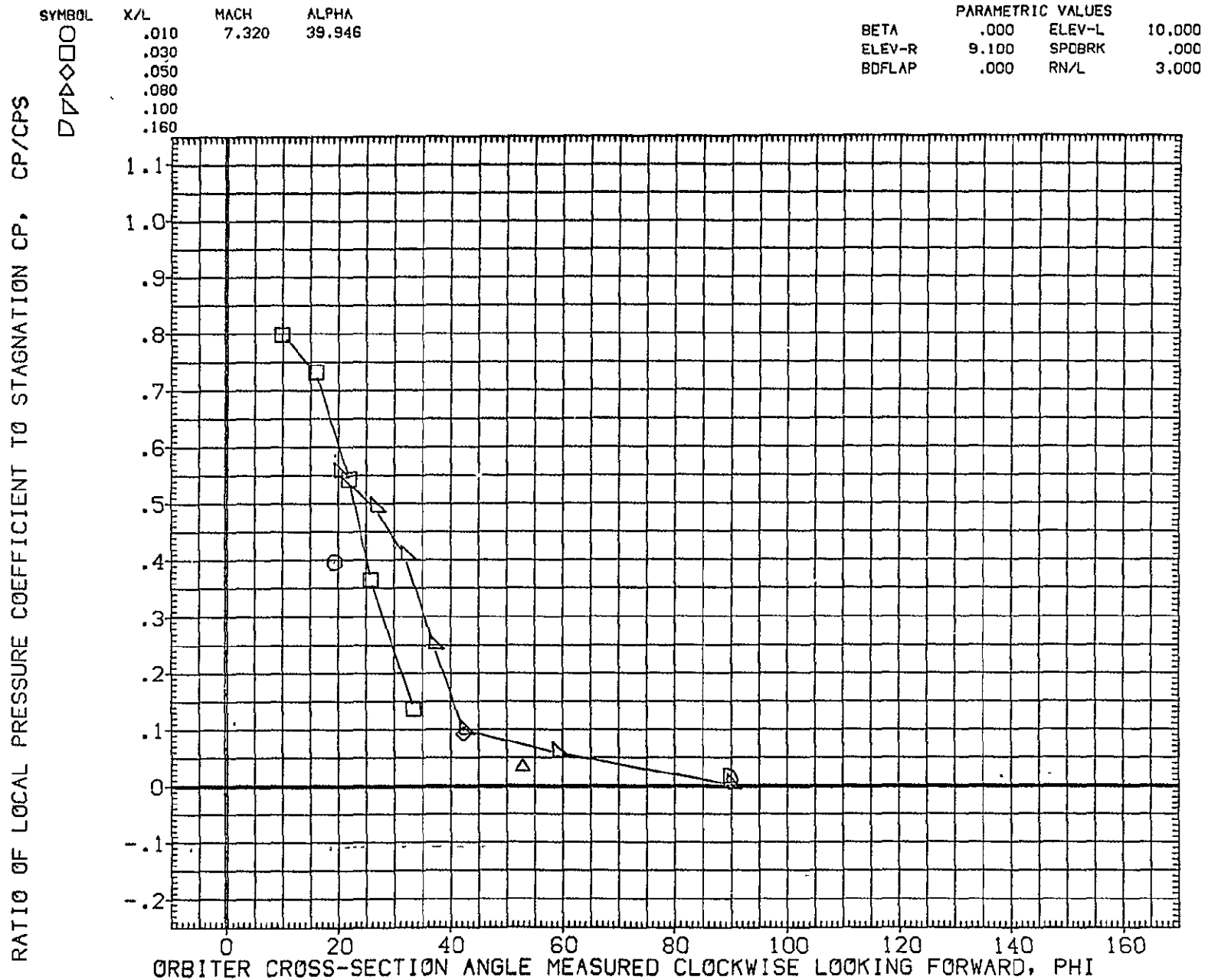


FIG. 12 FUSELAGE CROSS SECTIONS

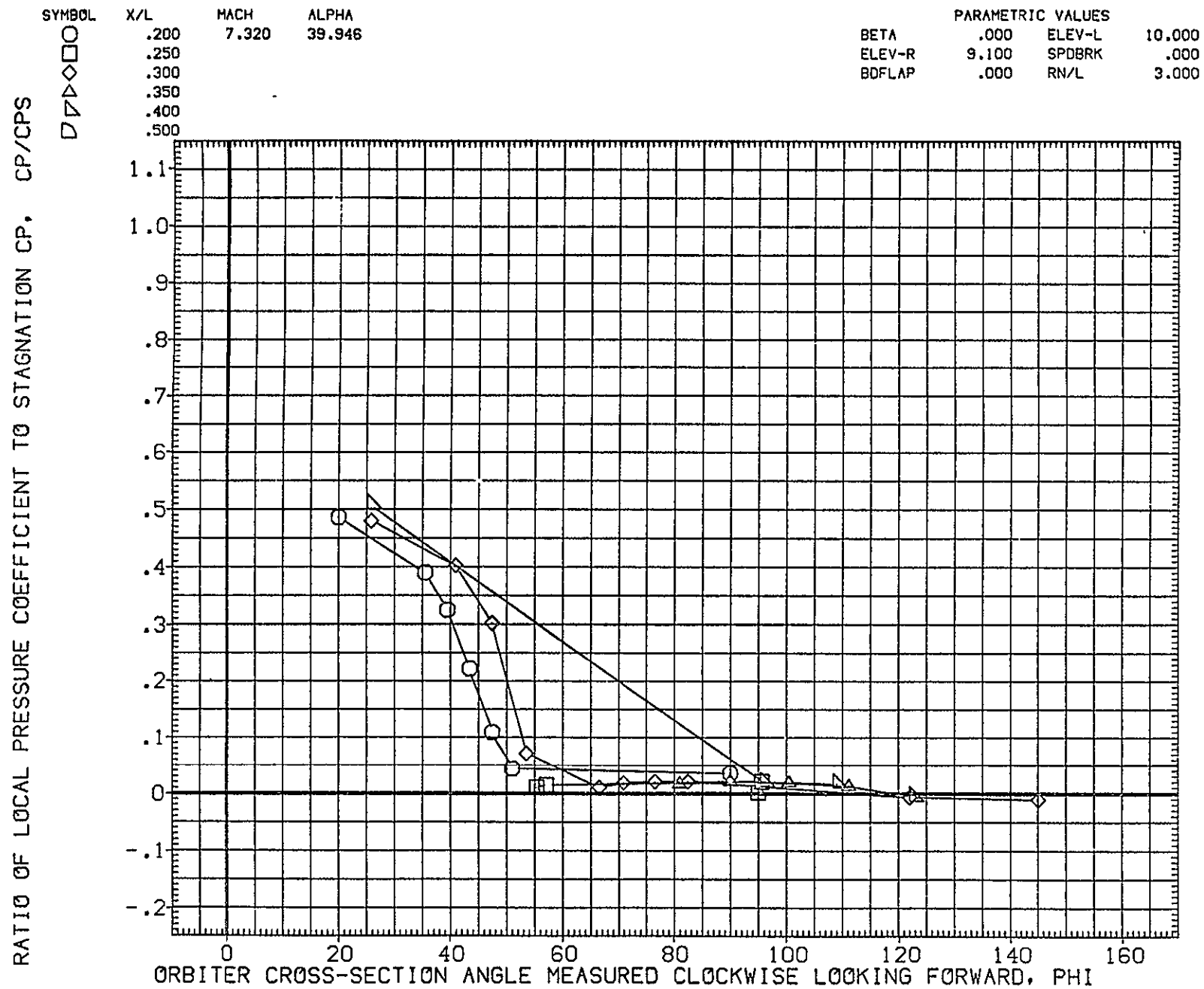


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (PEZJ11)

SYMBOL  
 ○ □ ◇ △ ▽

X/L	MACH	ALPHA
.600	7.320	39.946
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

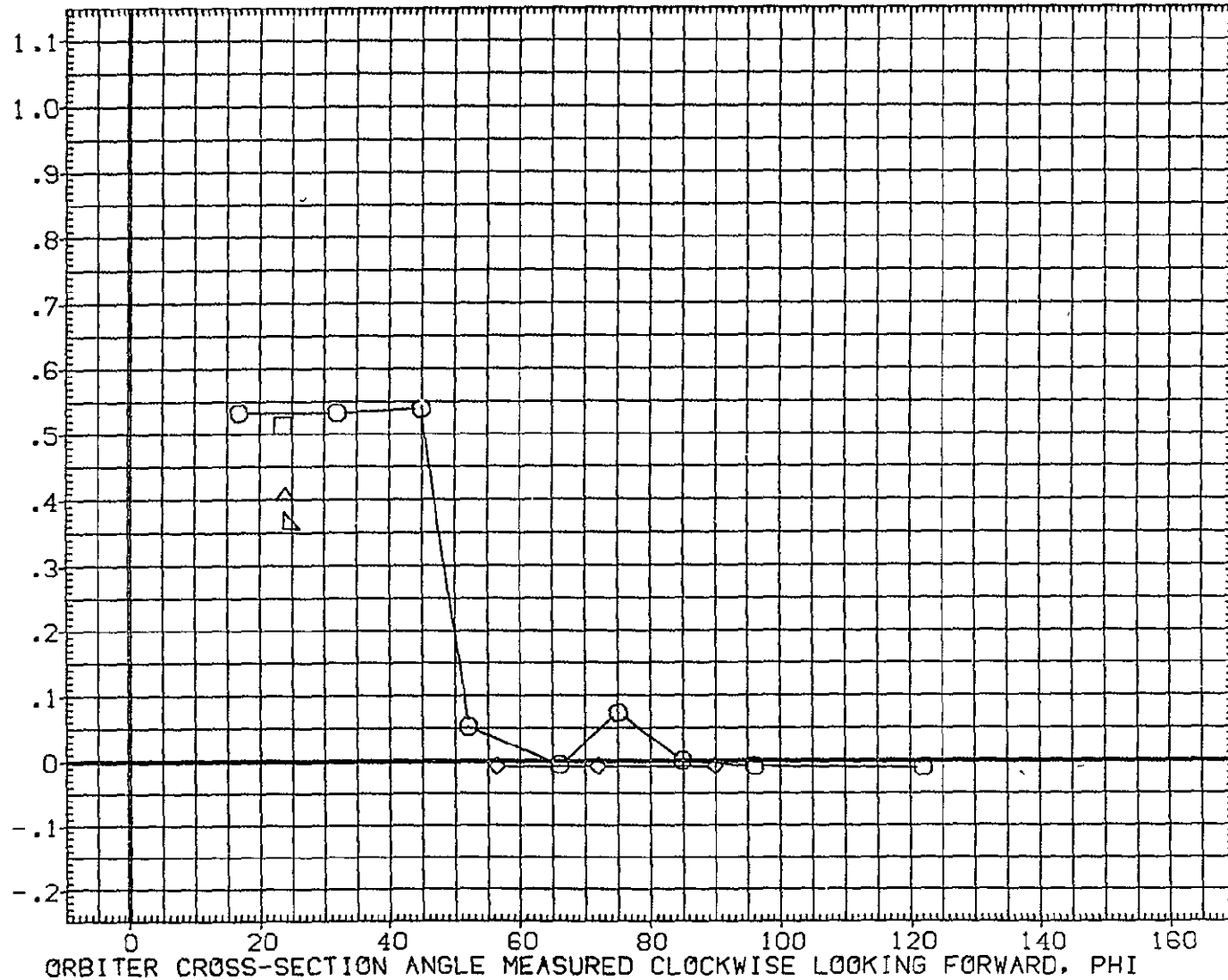


FIG. 12 FUSELAGE CROSS SECTIONS

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

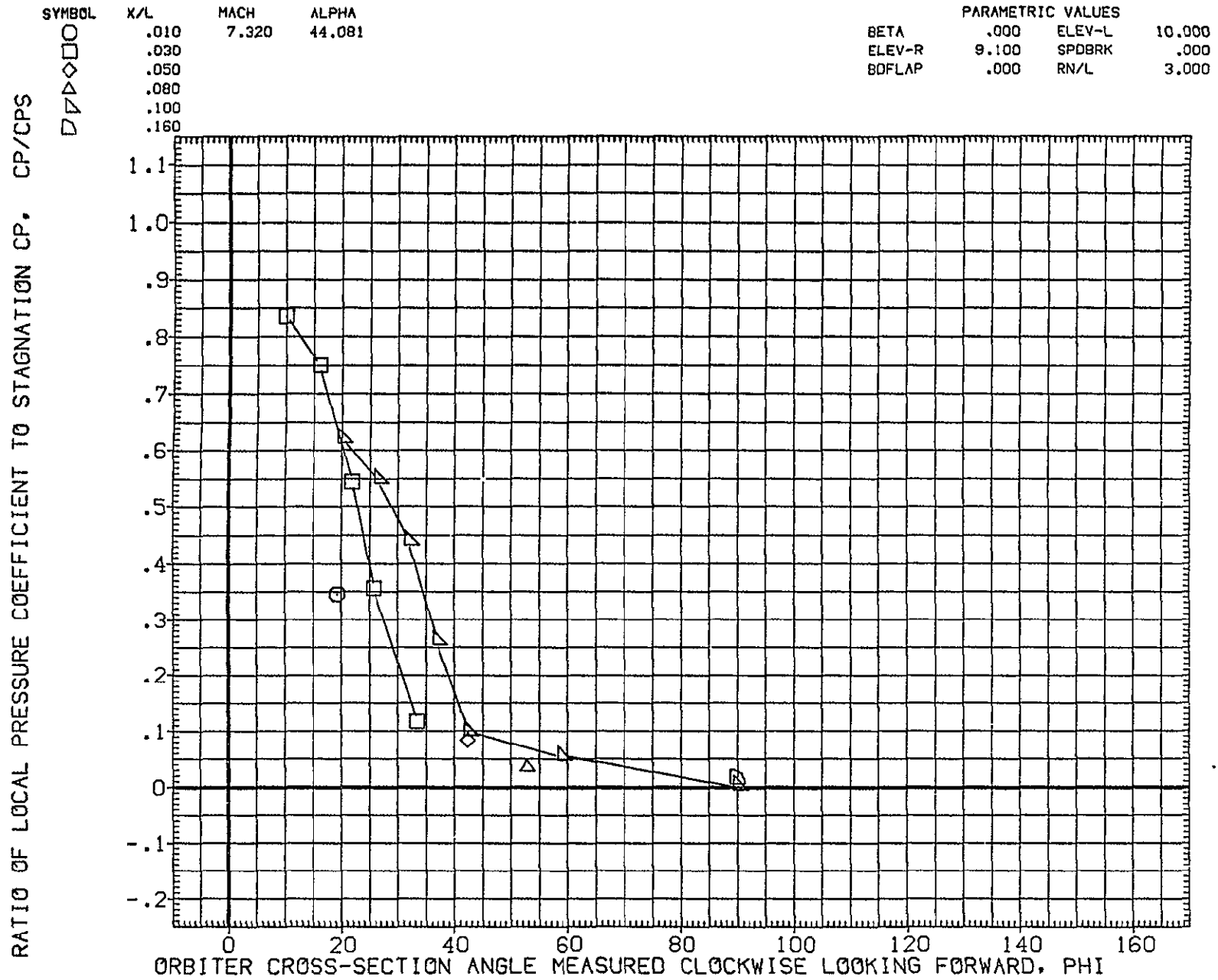


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

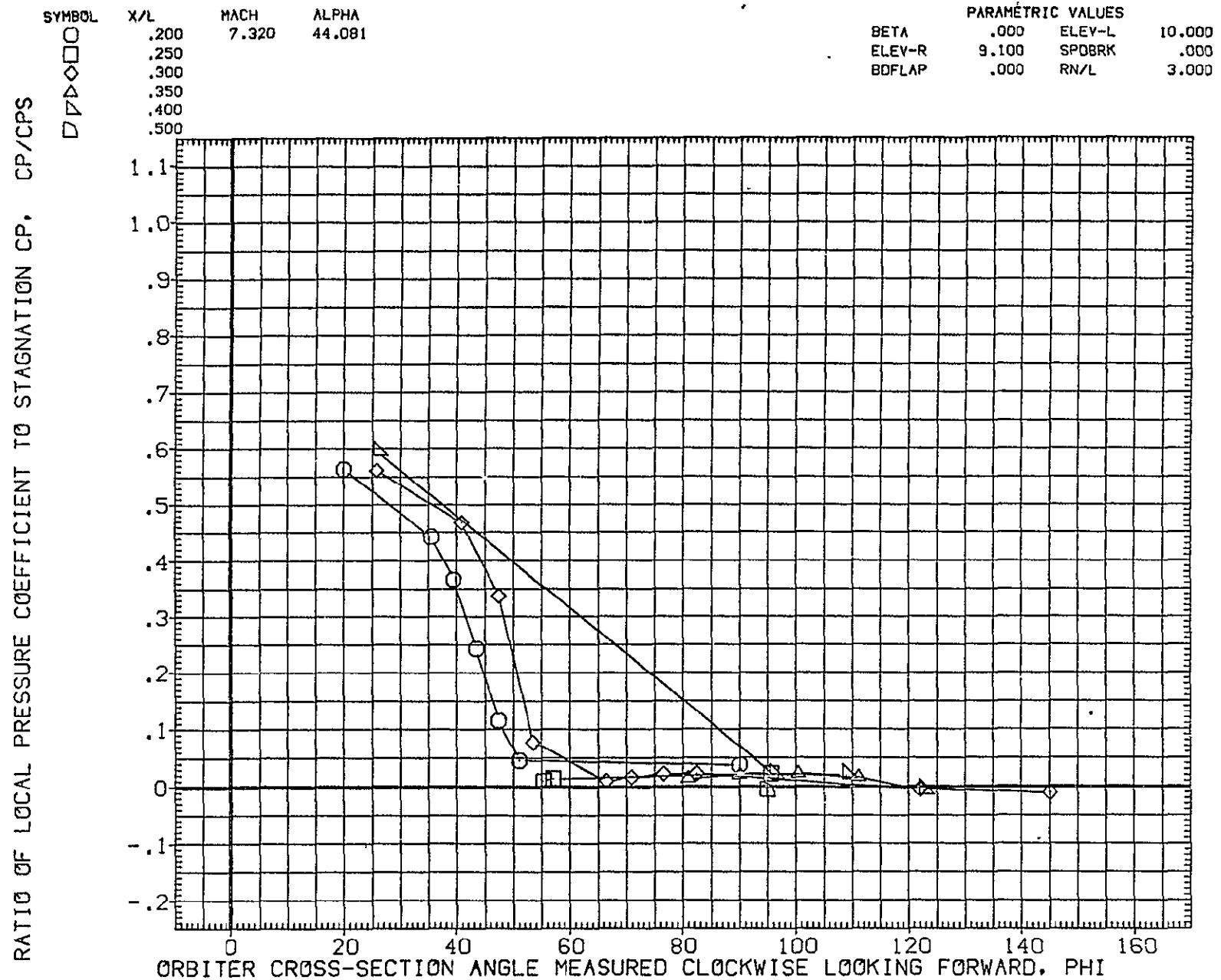


FIG. 12 FUSELAGE CROSS SECTIONS

SYMBOL  
○  
□  
◇  
△  
▽

X/L	MACH	ALPHA
.600	7.320	44.081
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

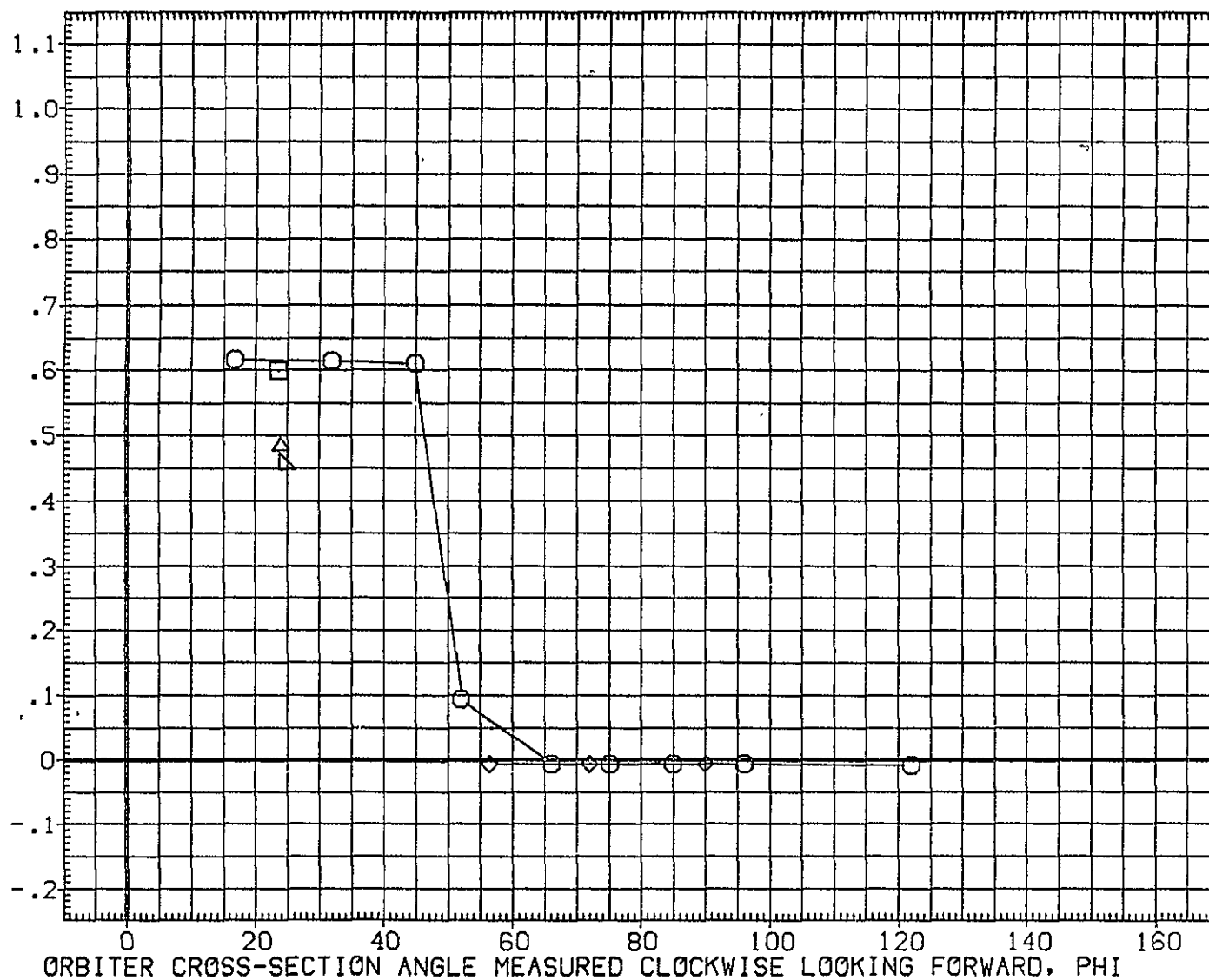


FIG. 12 FUSELAGE CROSS SECTIONS

SYMBOL  $\square$   $\diamond$   $\triangle$   $\circ$   
 MACH 7.320 ALPHA 48.676  
 BETA .000 ELEV-L 10.000  
 ELEV-R 9.100 SPDBRK .000  
 BDFLAP .000 RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs  
 1.1  
1.0  
.9  
.8  
.7  
.6  
.5  
.4  
.3  
.2  
.1  
0  
-.1  
-.2  
 ORBITER CROSS-SECTION ANGLE MEASURED CLOCKWISE LOOKING FORWARD, PHI  
 0 20 40 60 80 100 120 140 160

Phi (°)	CP/CPs (Squares)	CP/CPs (Diamonds)	CP/CPs (Triangles)
10	0.87		
18	0.78		
20		0.32	
22	0.55		0.68
25	0.36		0.60
30	0.11		0.48
35			0.28
40		0.08	0.11
50			0.05
60			0.07
90			0.02

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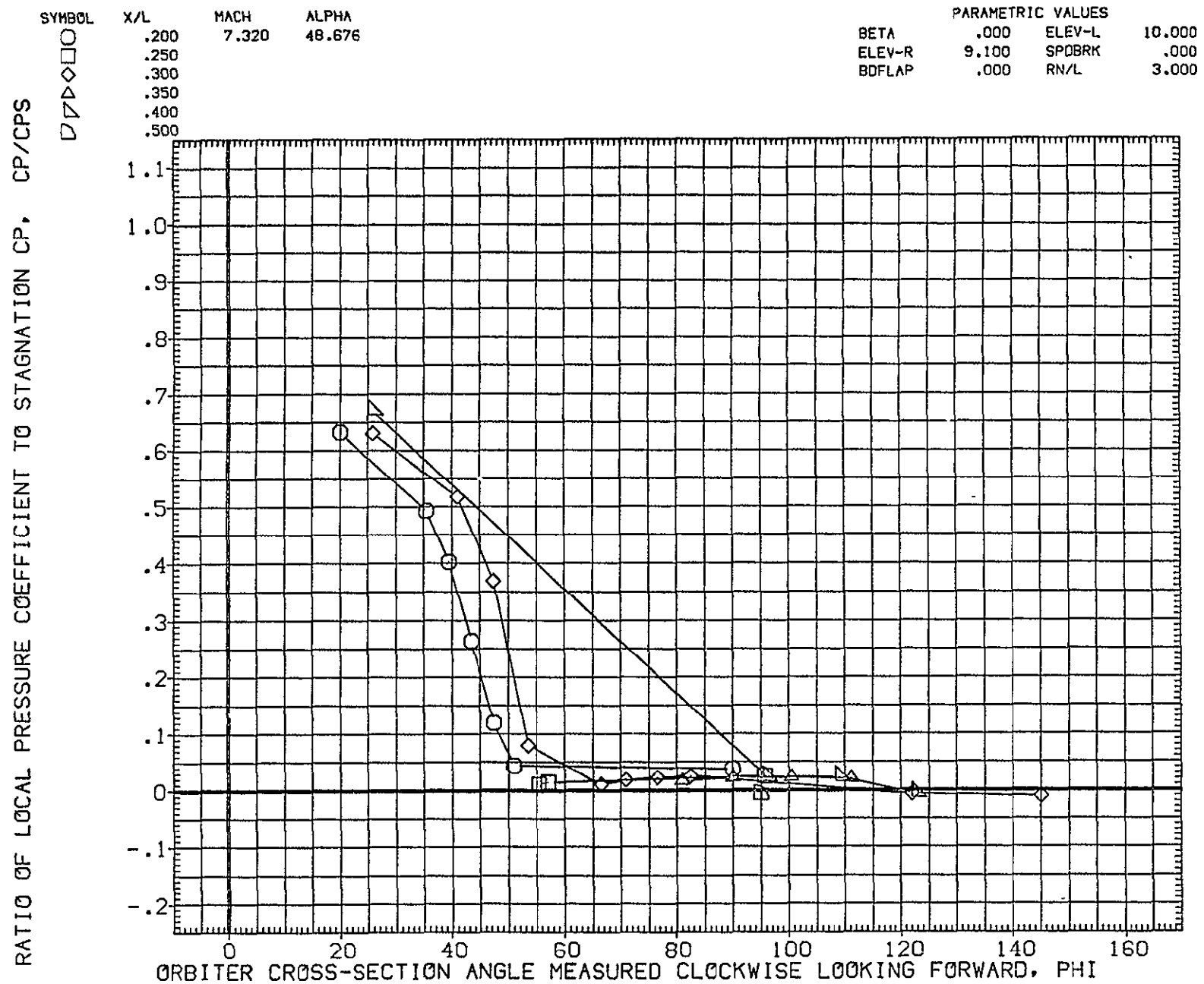


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (PEZJ11)

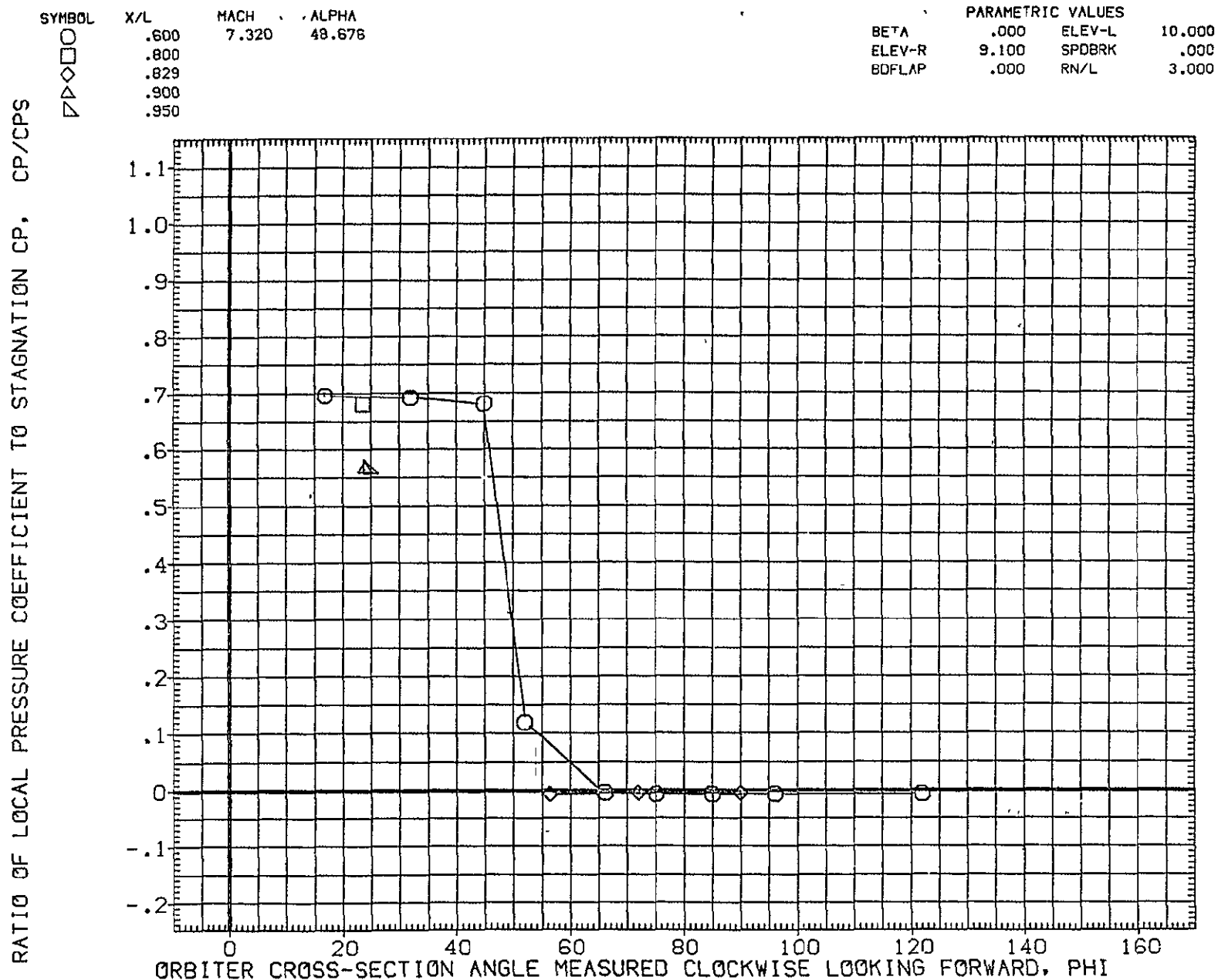


FIG. 12 FUSELAGE CROSS SECTIONS

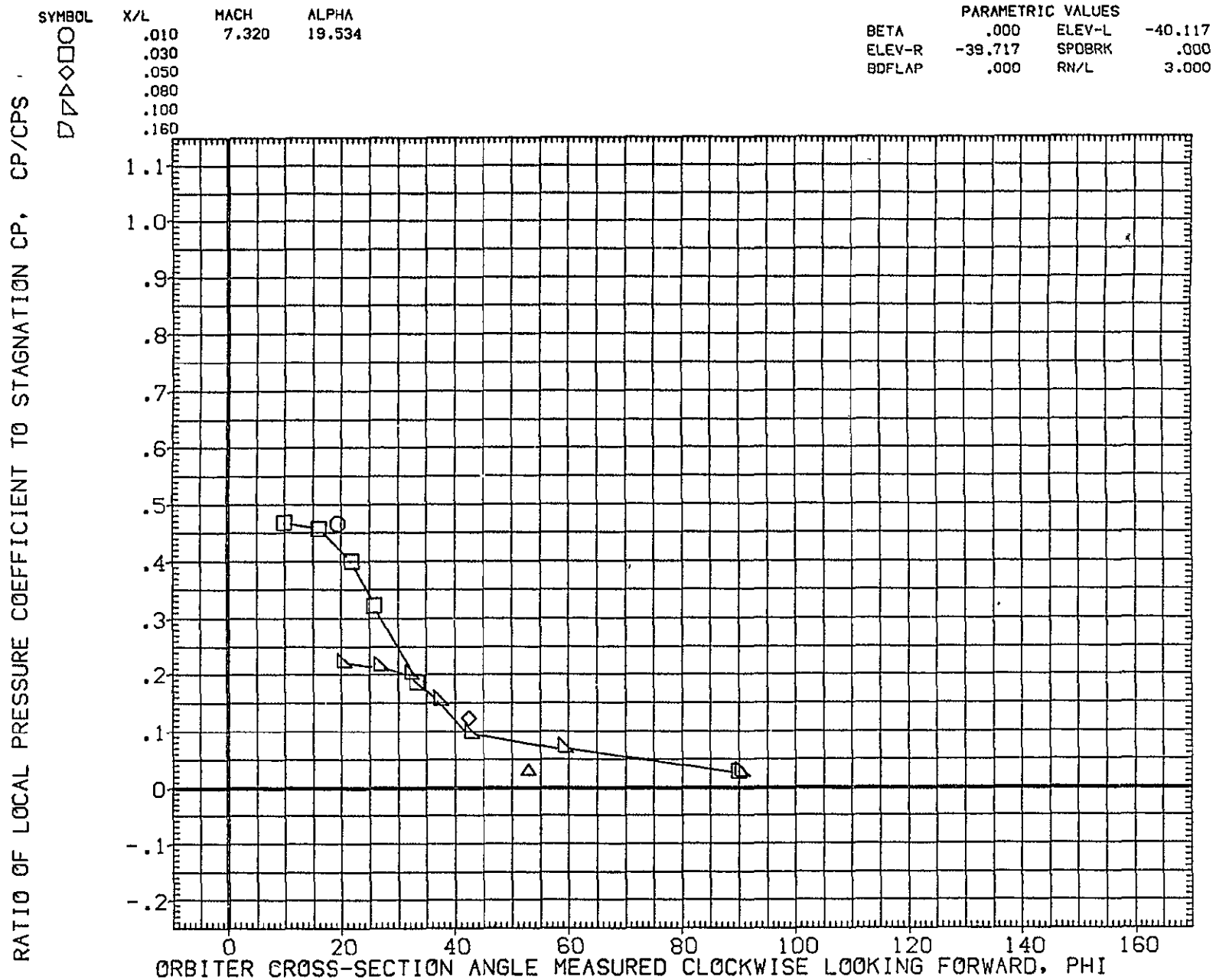


FIG. 12 FUSELAGE CROSS SECTIONS



ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

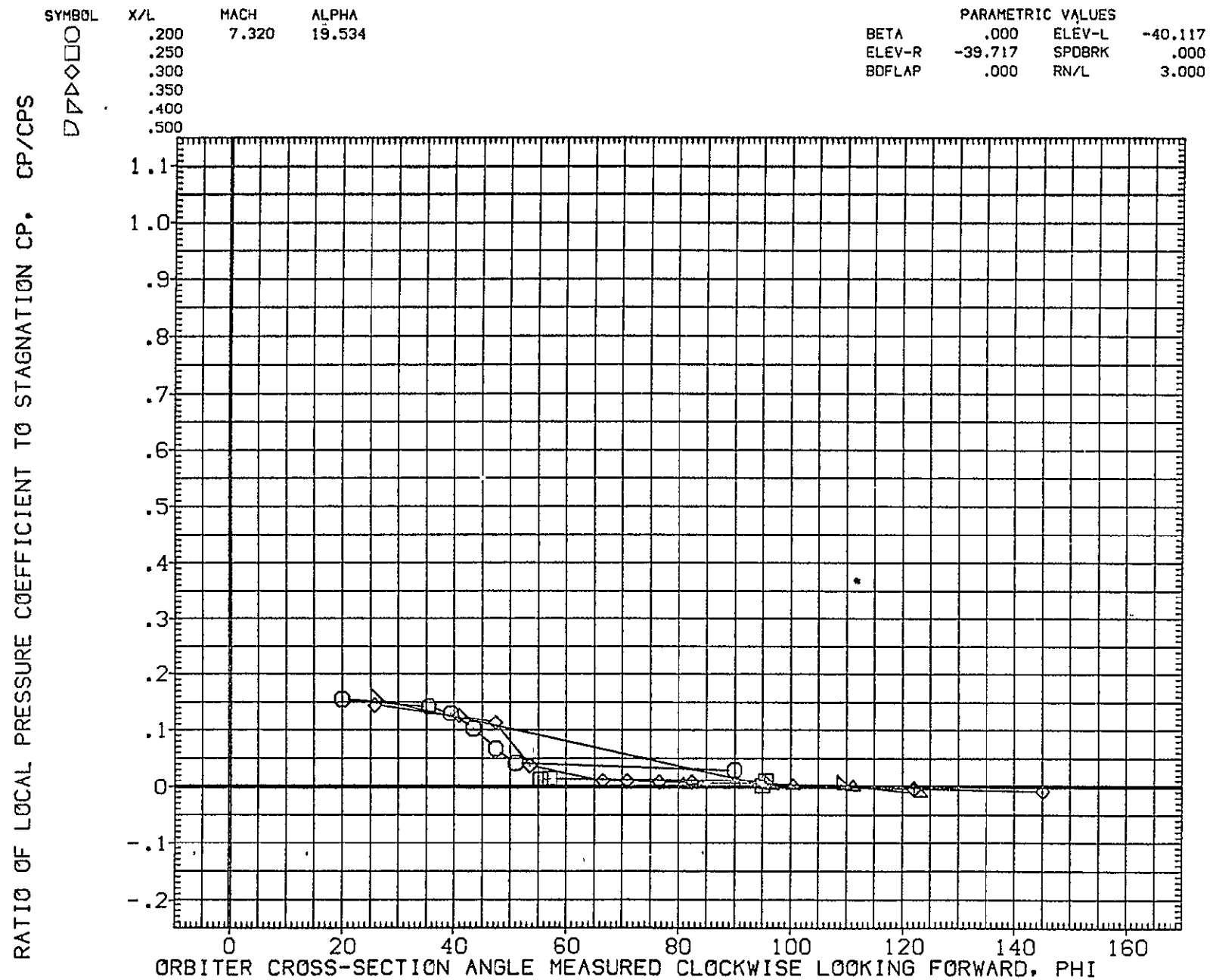


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

SYMBOL  
 ○  
 □  
 ◇  
 △  
 ▽

X/L	MACH	ALPHA
.600	7.320	19.534
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

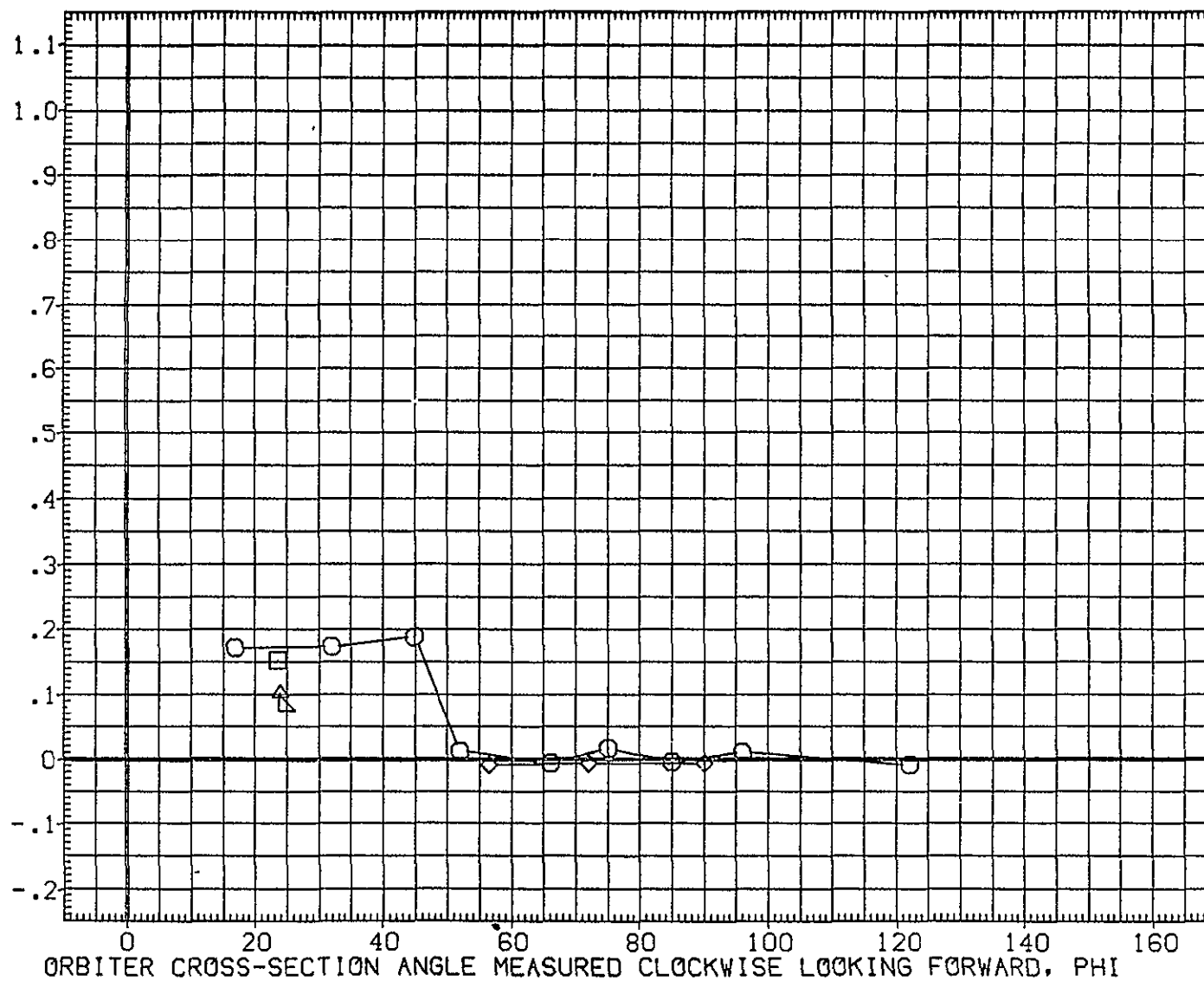


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

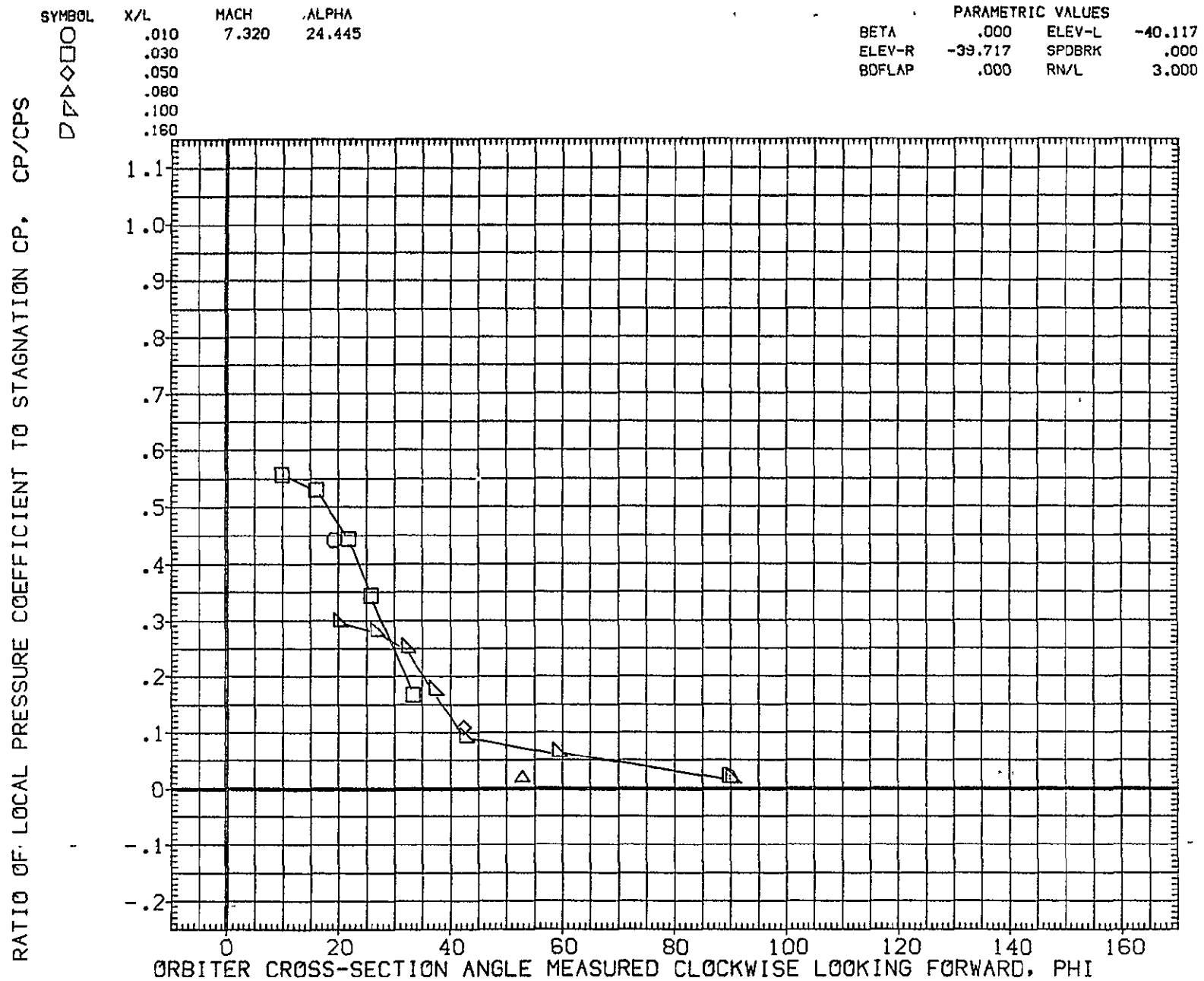


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ32)

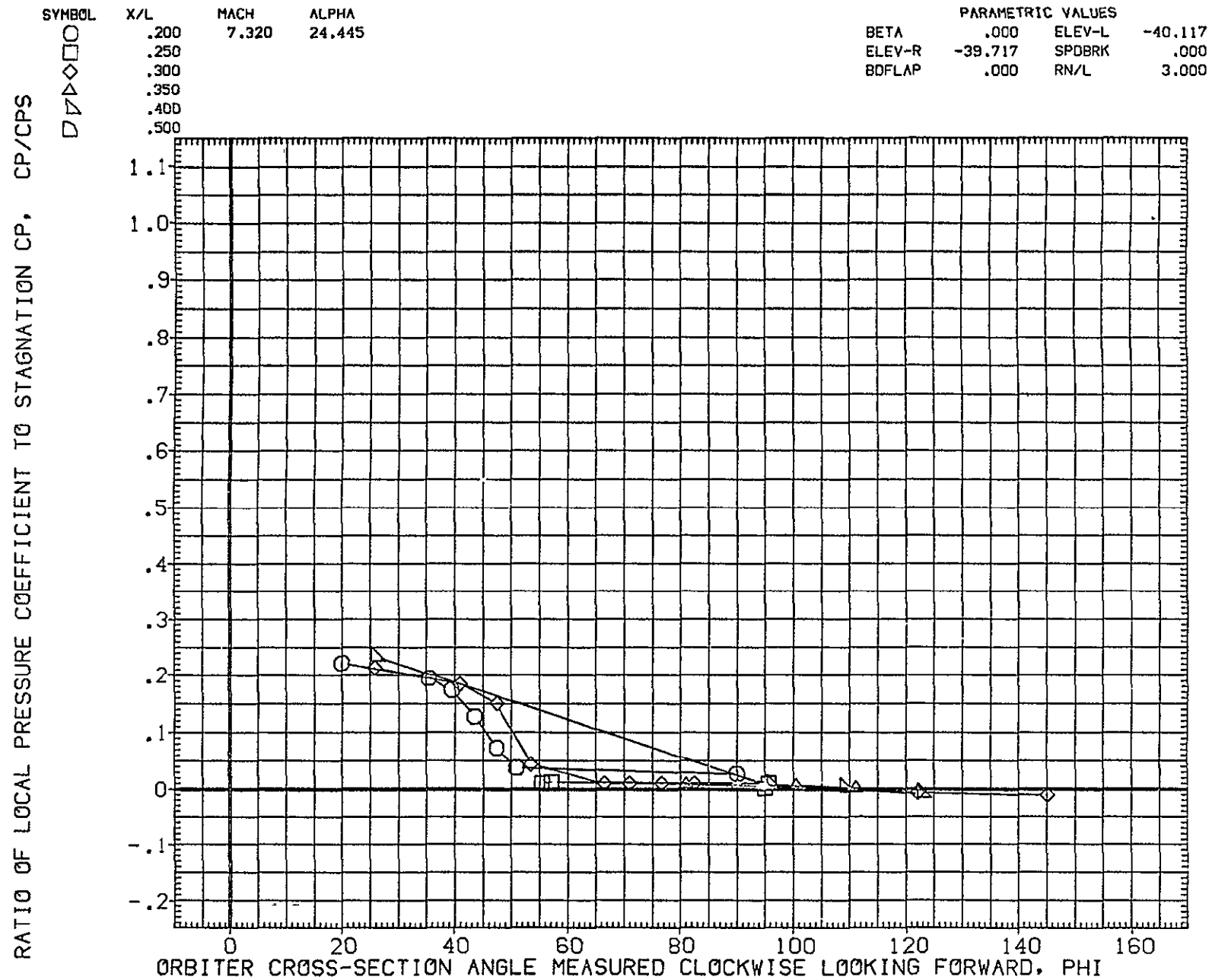


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

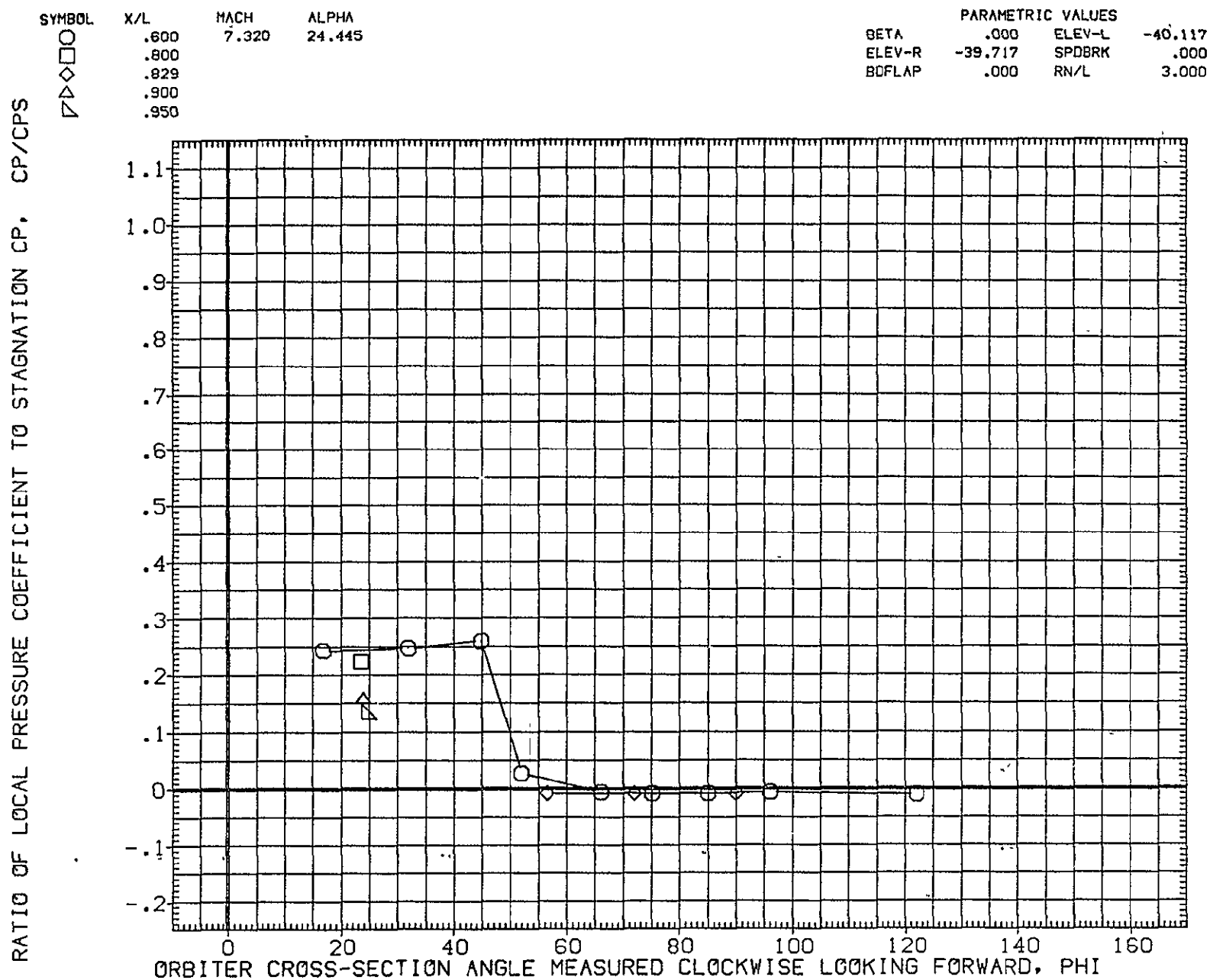


FIG. 12 FUSELAGE CROSS SECTIONS

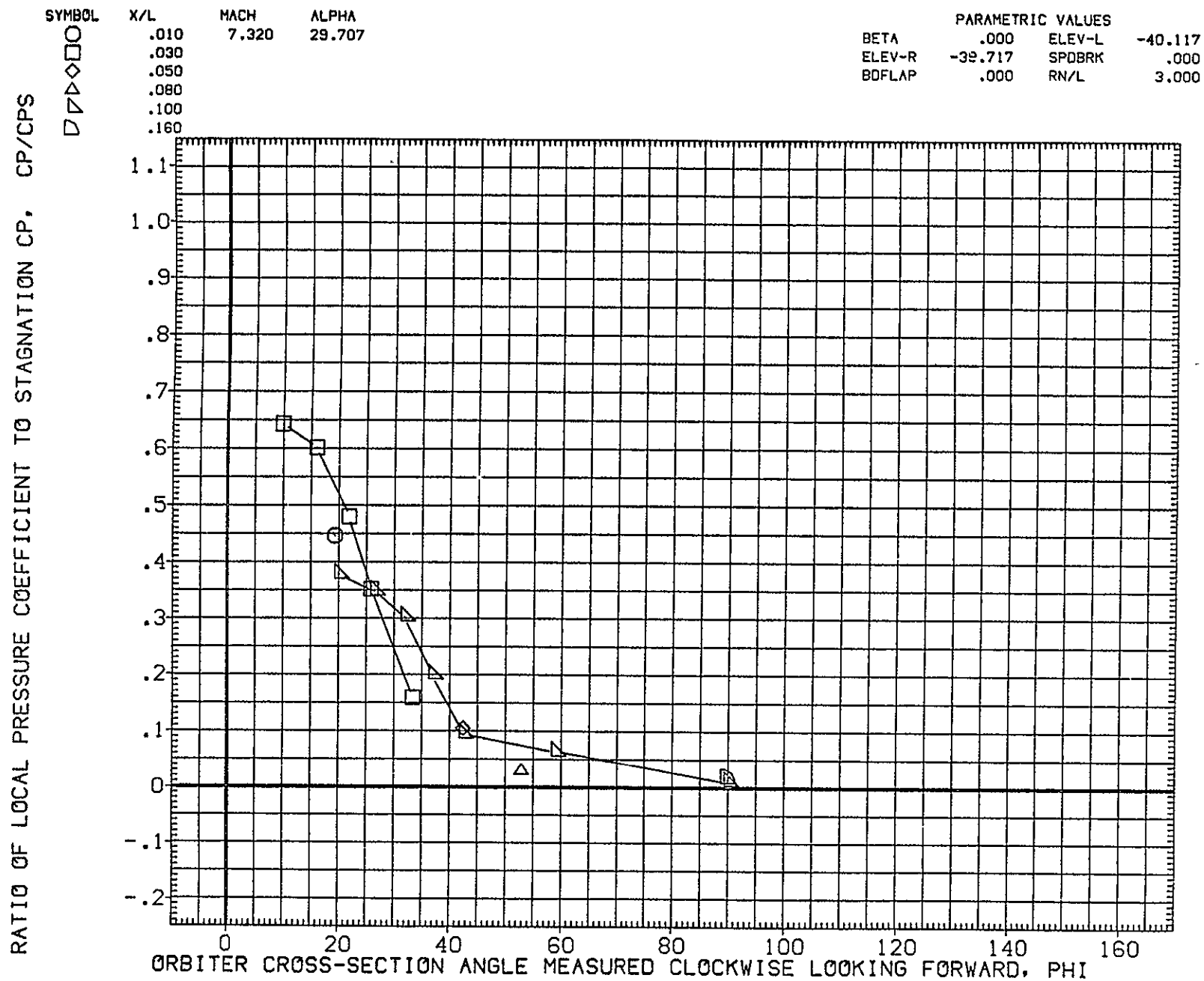


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C ORB FUSELAGE CROSS SECT. (BEZJ32)

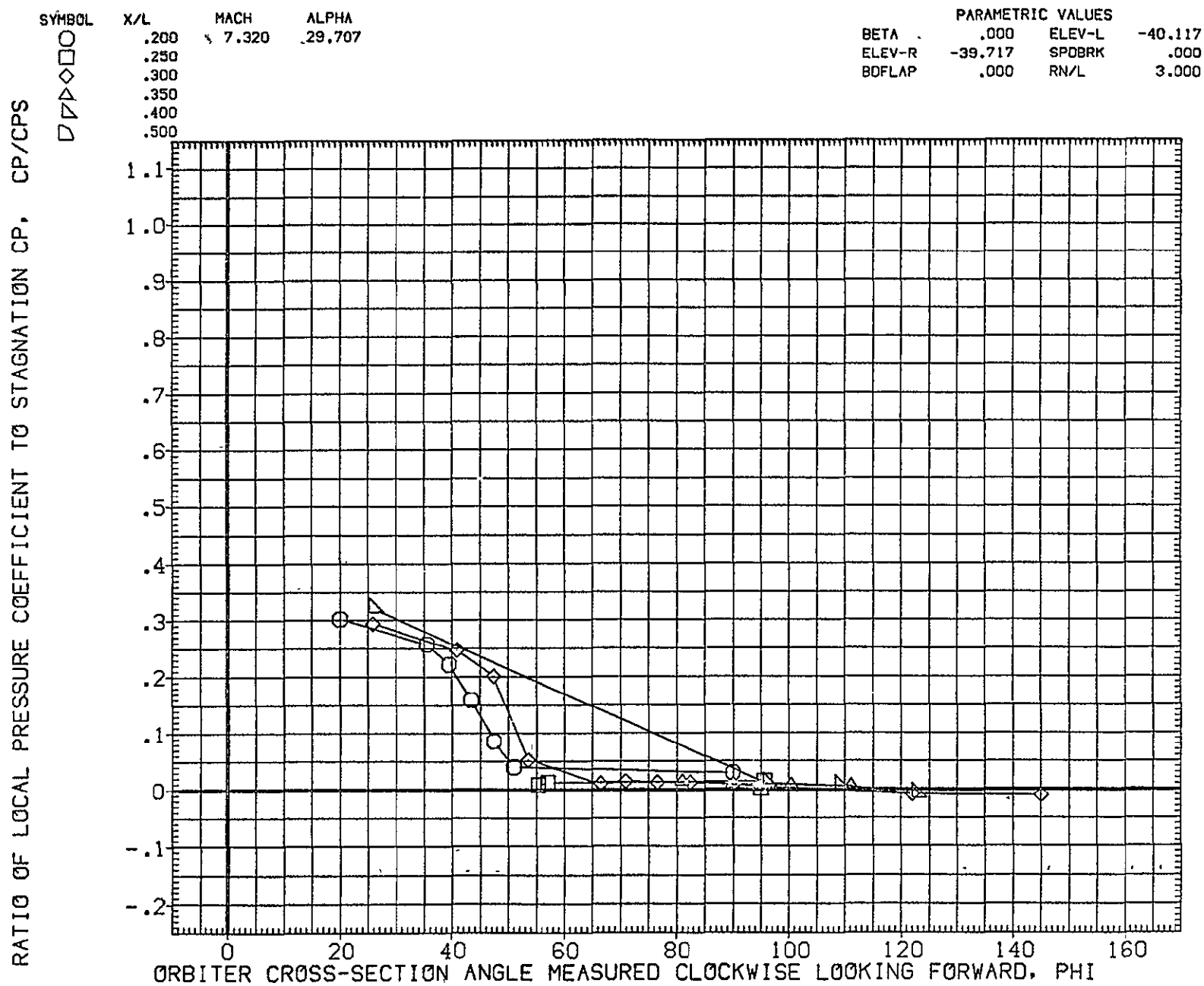


FIG. 12 FUSELAGE CROSS SECTIONS

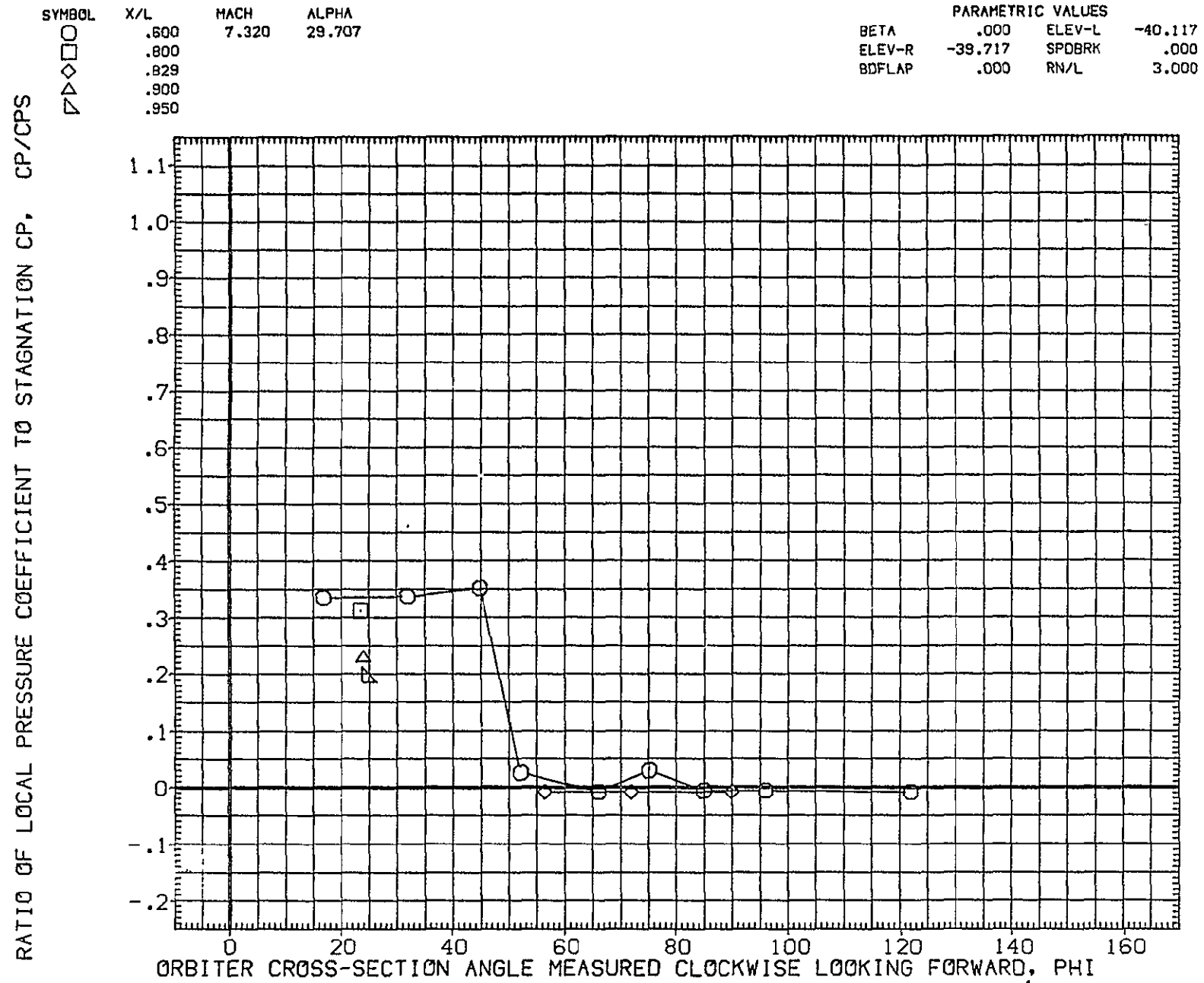


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

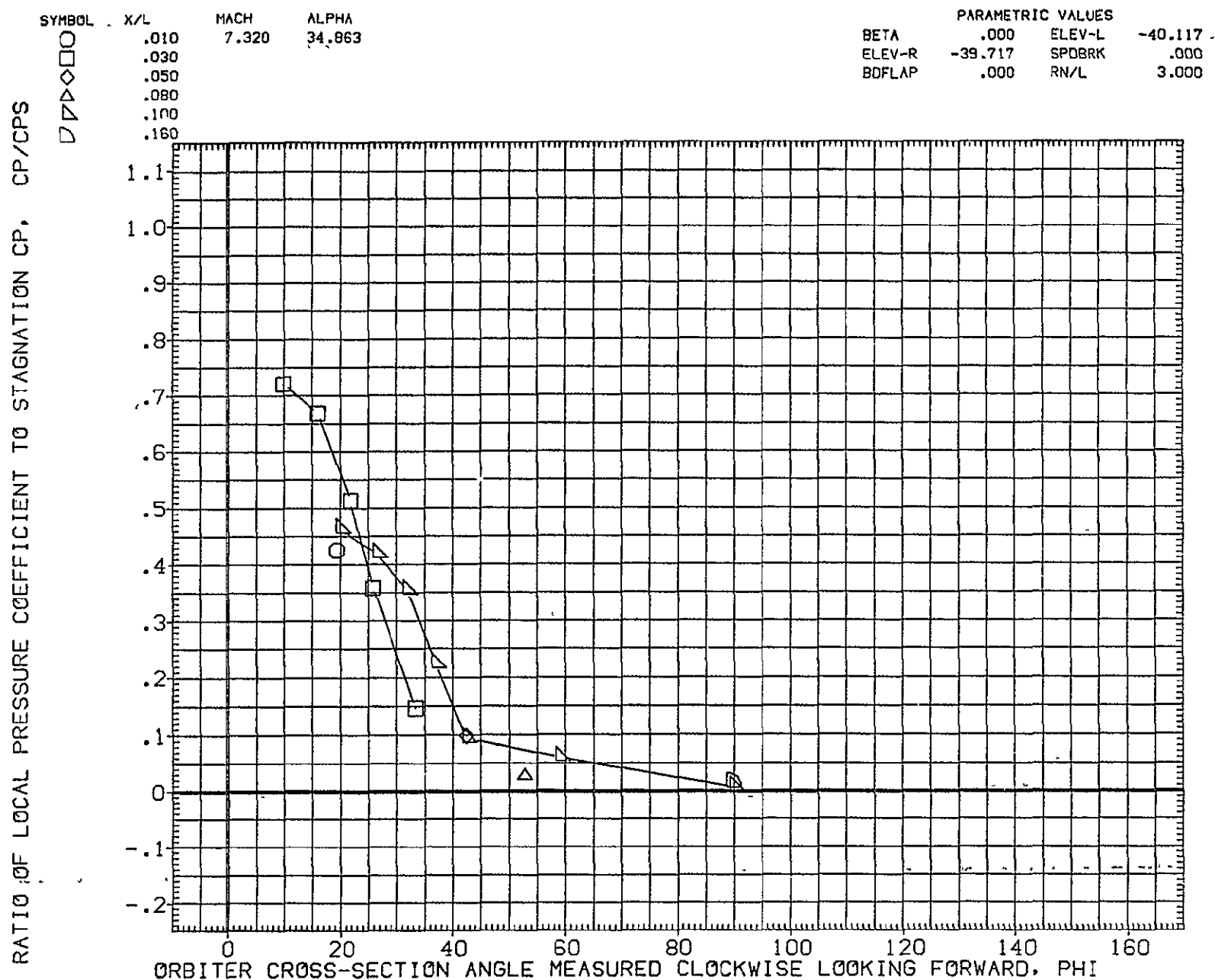


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C ORB FUSELAGE CROSS SECT. (BEZJ32)

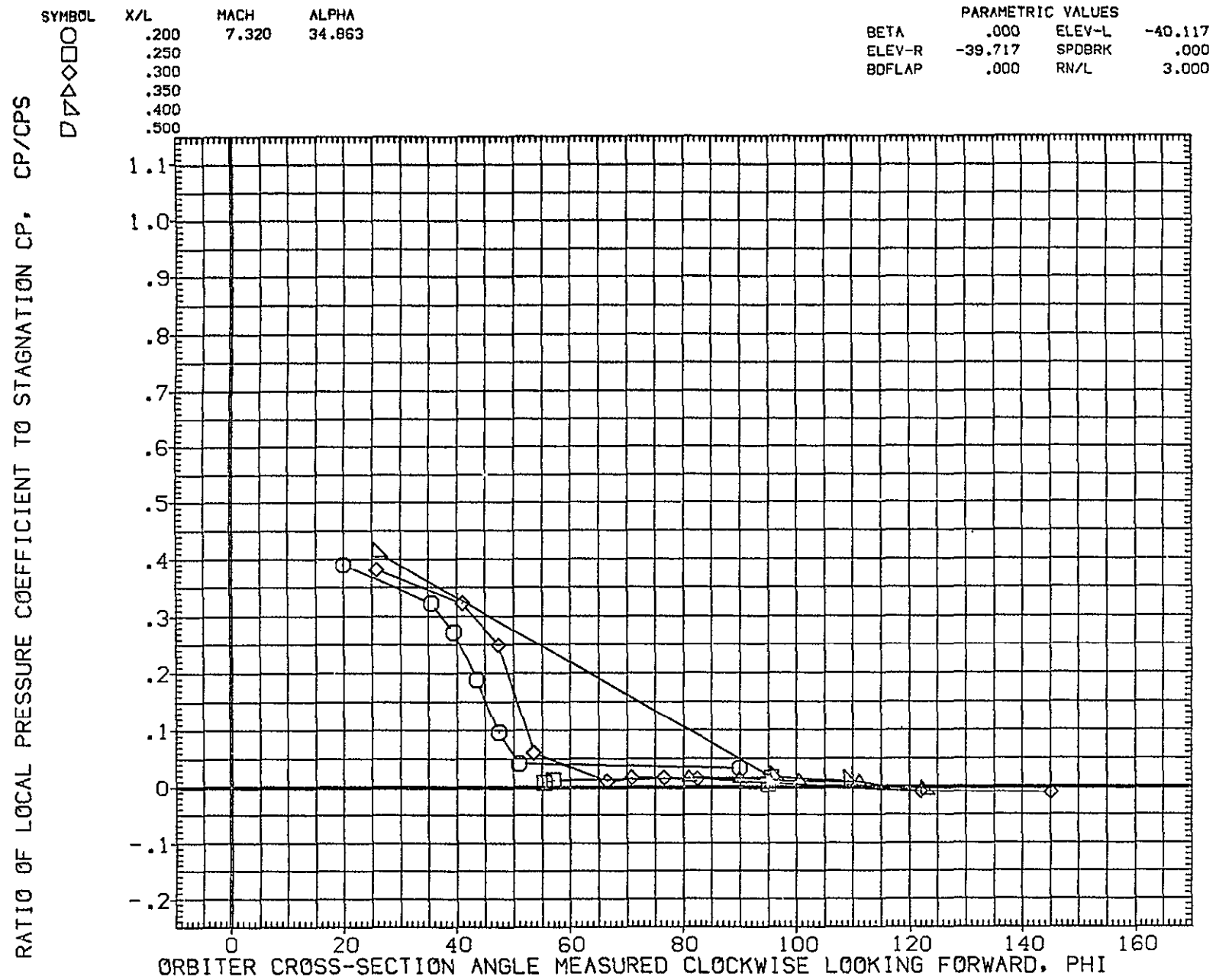


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

SYMBOL	X/L	MACH	ALPHA
○	.600	7.320	34.863
□	.800		
△	.829		
◇	.900		
▽	.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

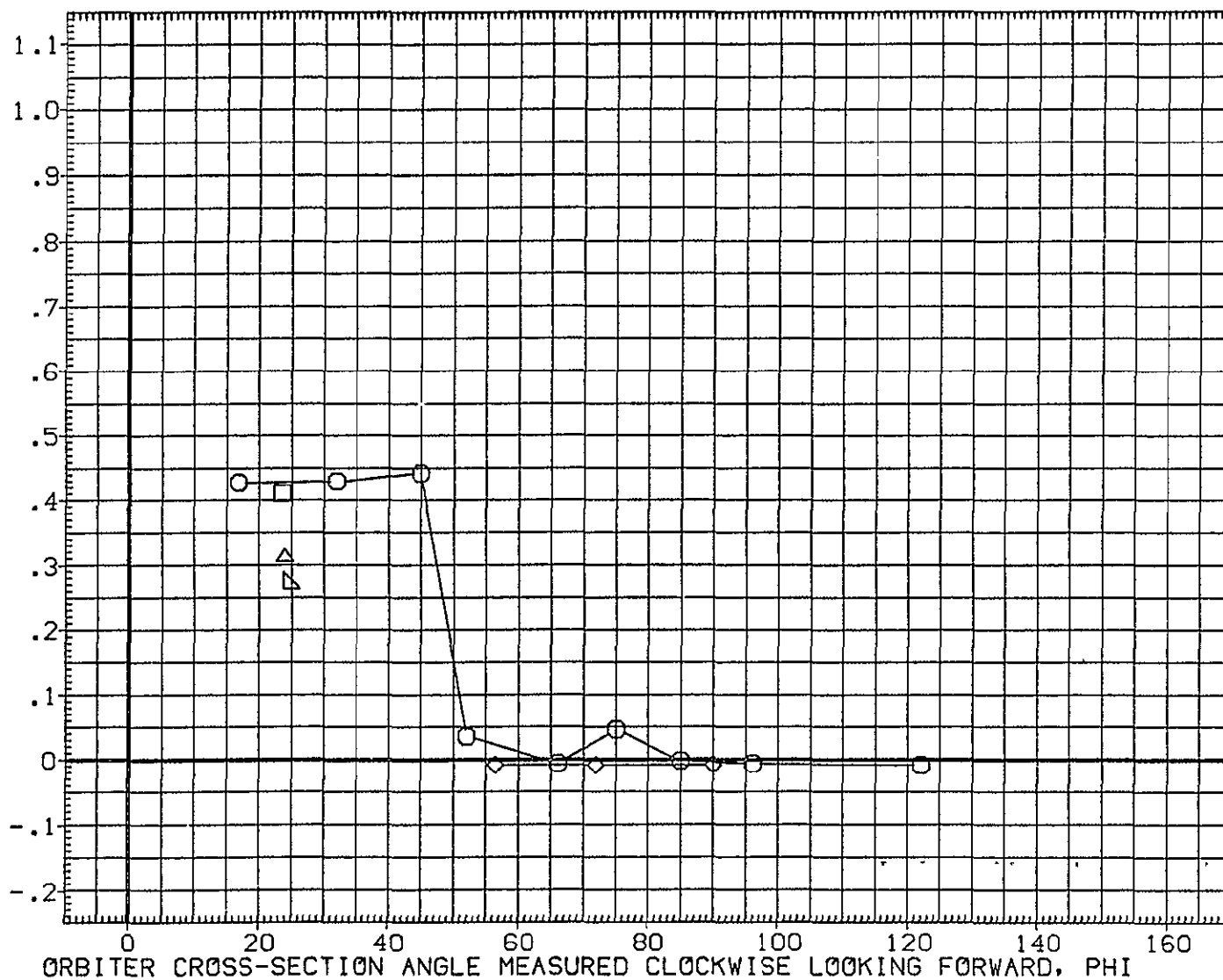


FIG. 12 FUSELAGE CROSS SECTIONS

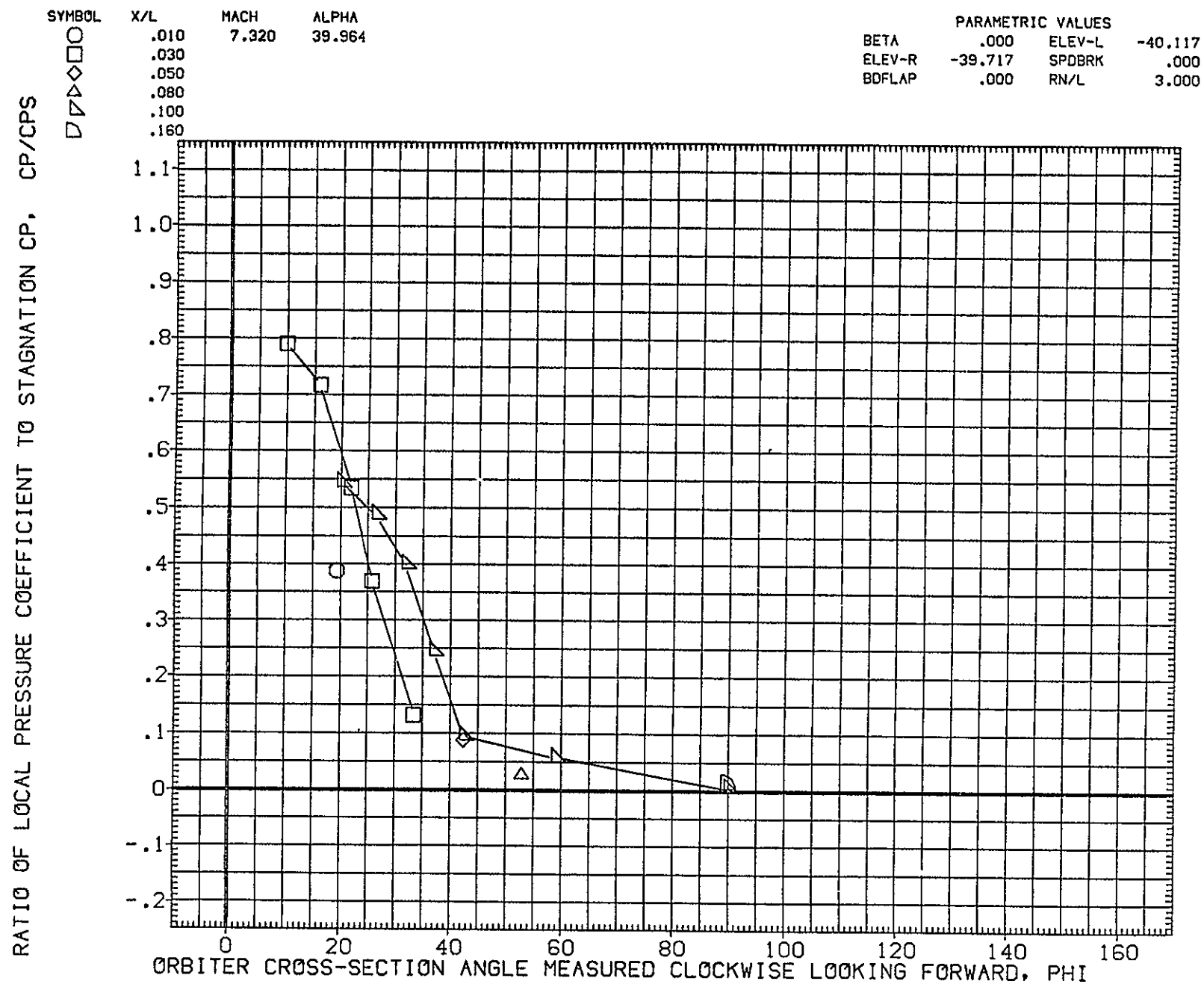


FIG. 12 FUSELAGE CROSS SECTIONS

## RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

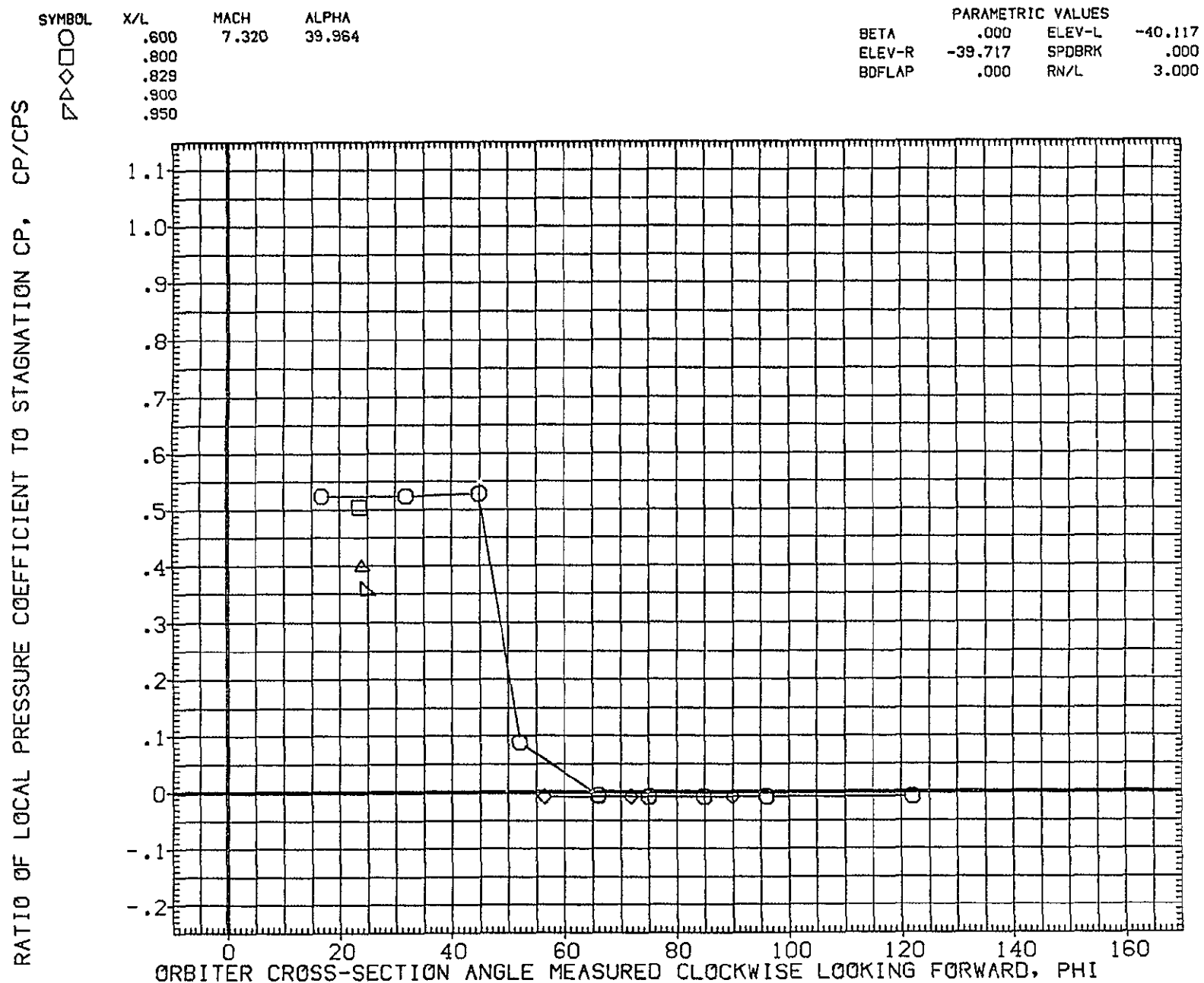


FIG. 12 FUSELAGE CROSS SECTIONS

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

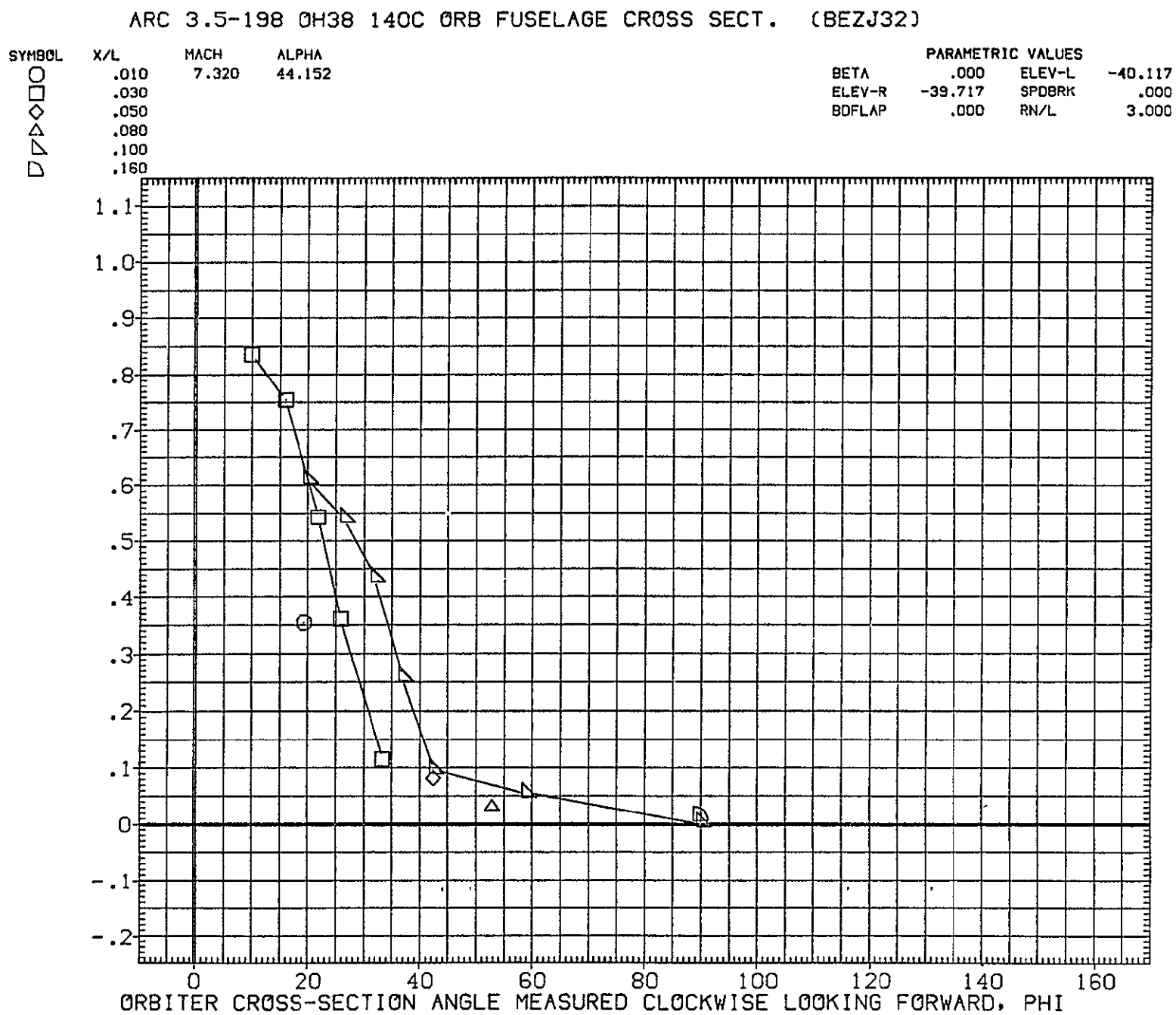


FIG. 12 FUSELAGE CROSS SECTIONS

SYMBOL

X/L	MACH	ALPHA
.200	7.320	44.152
.250		
.300		
.350		
.400		
.500		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

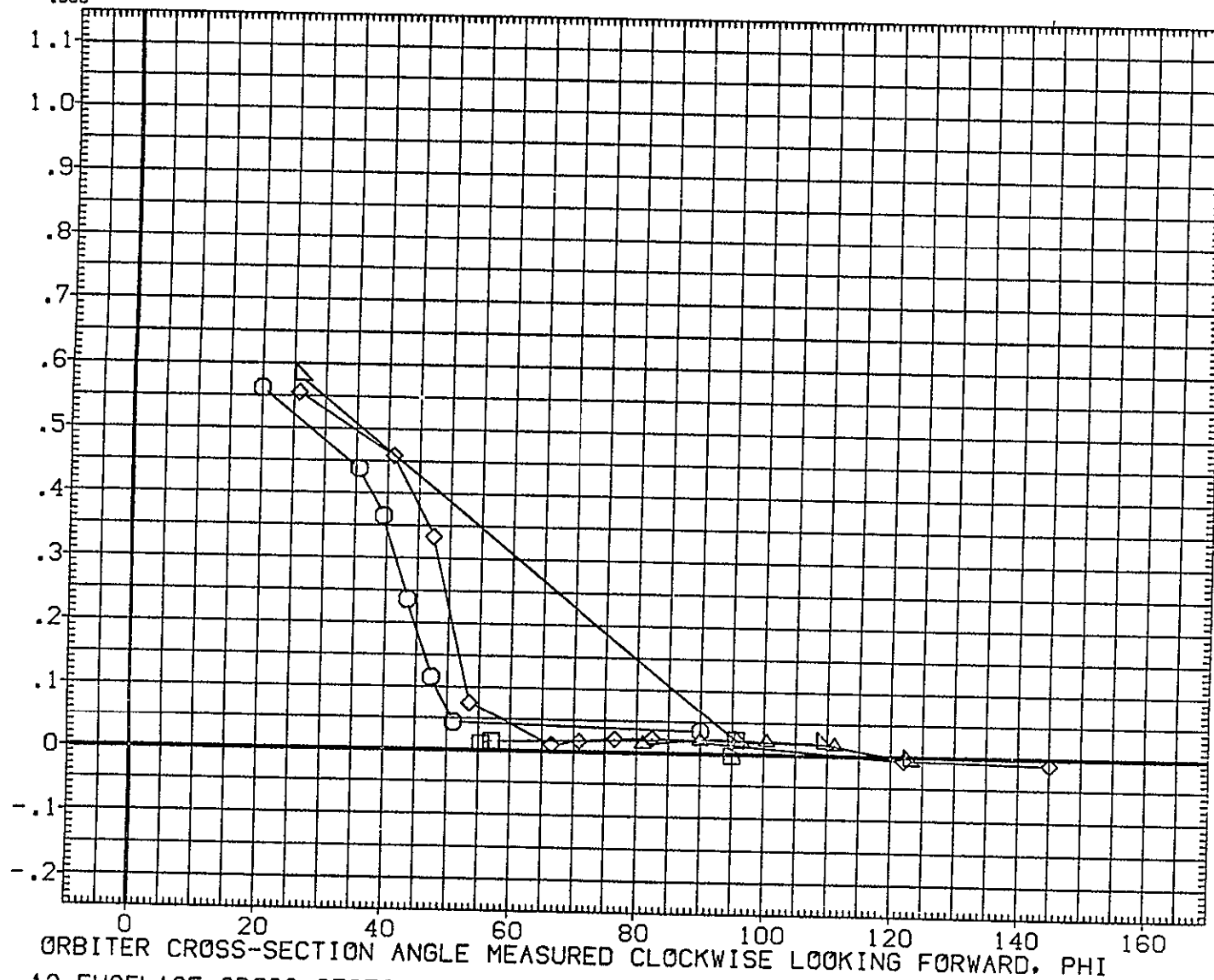
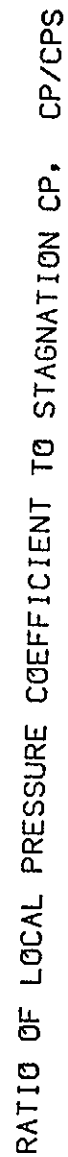
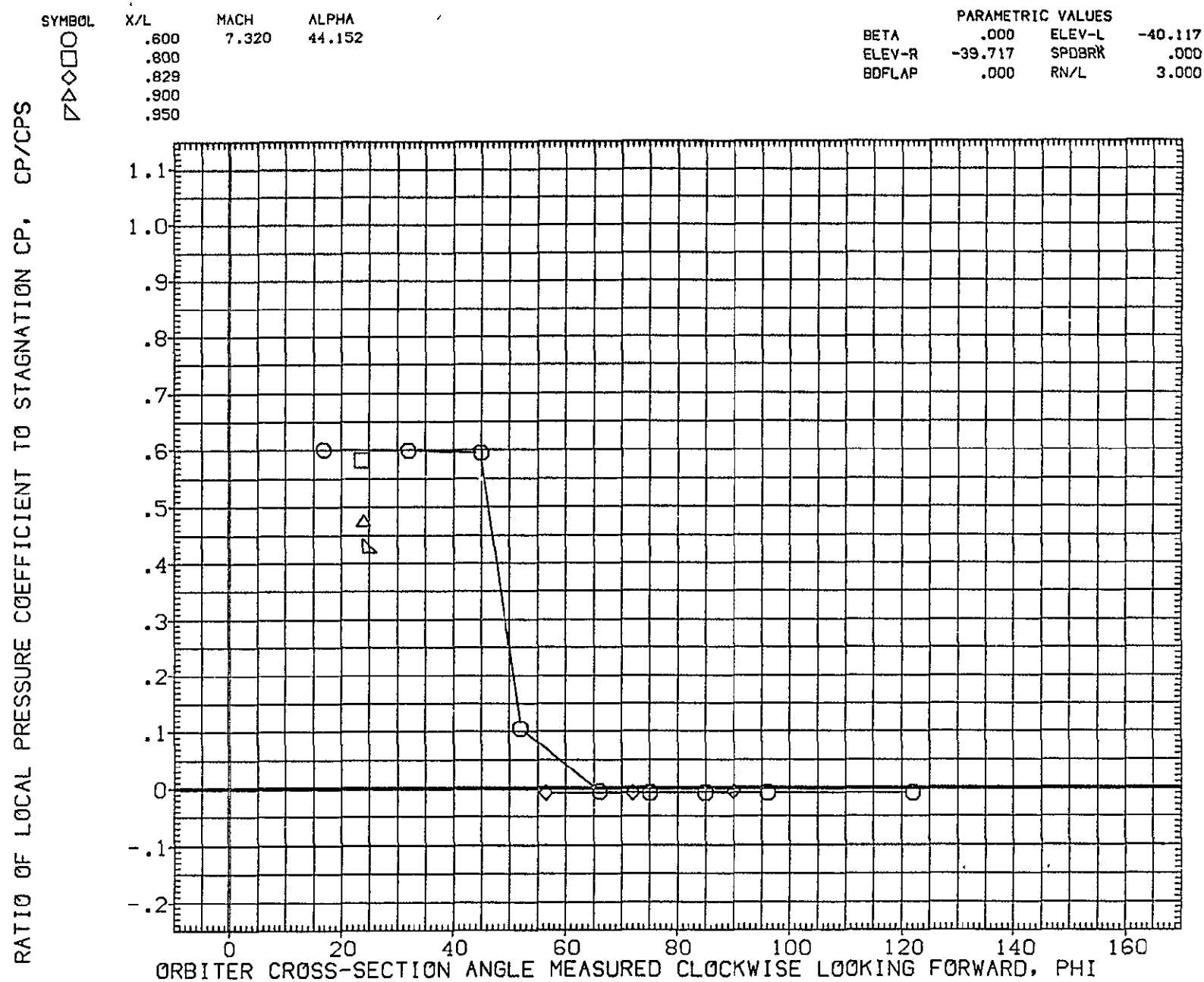


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)



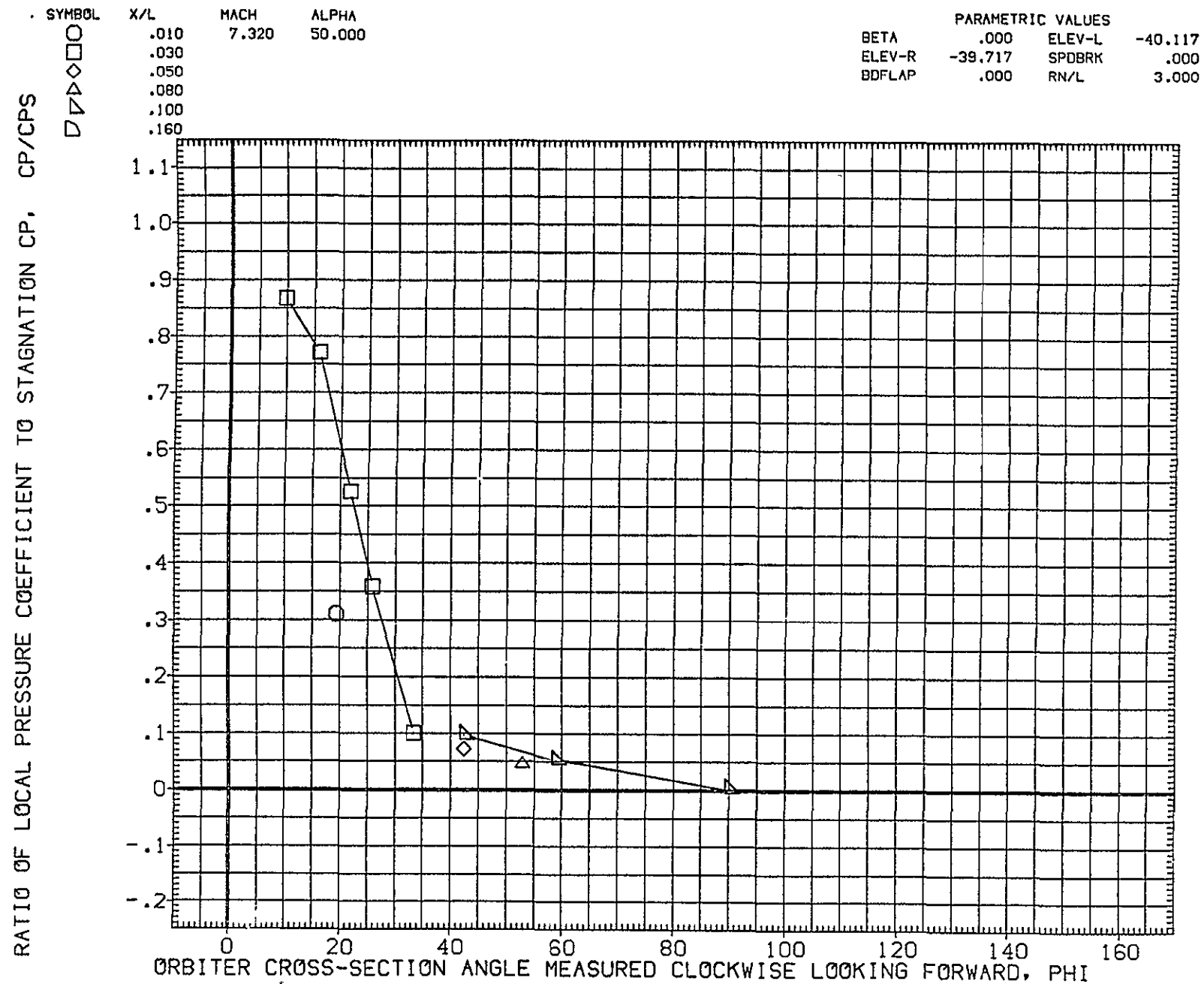


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ32)

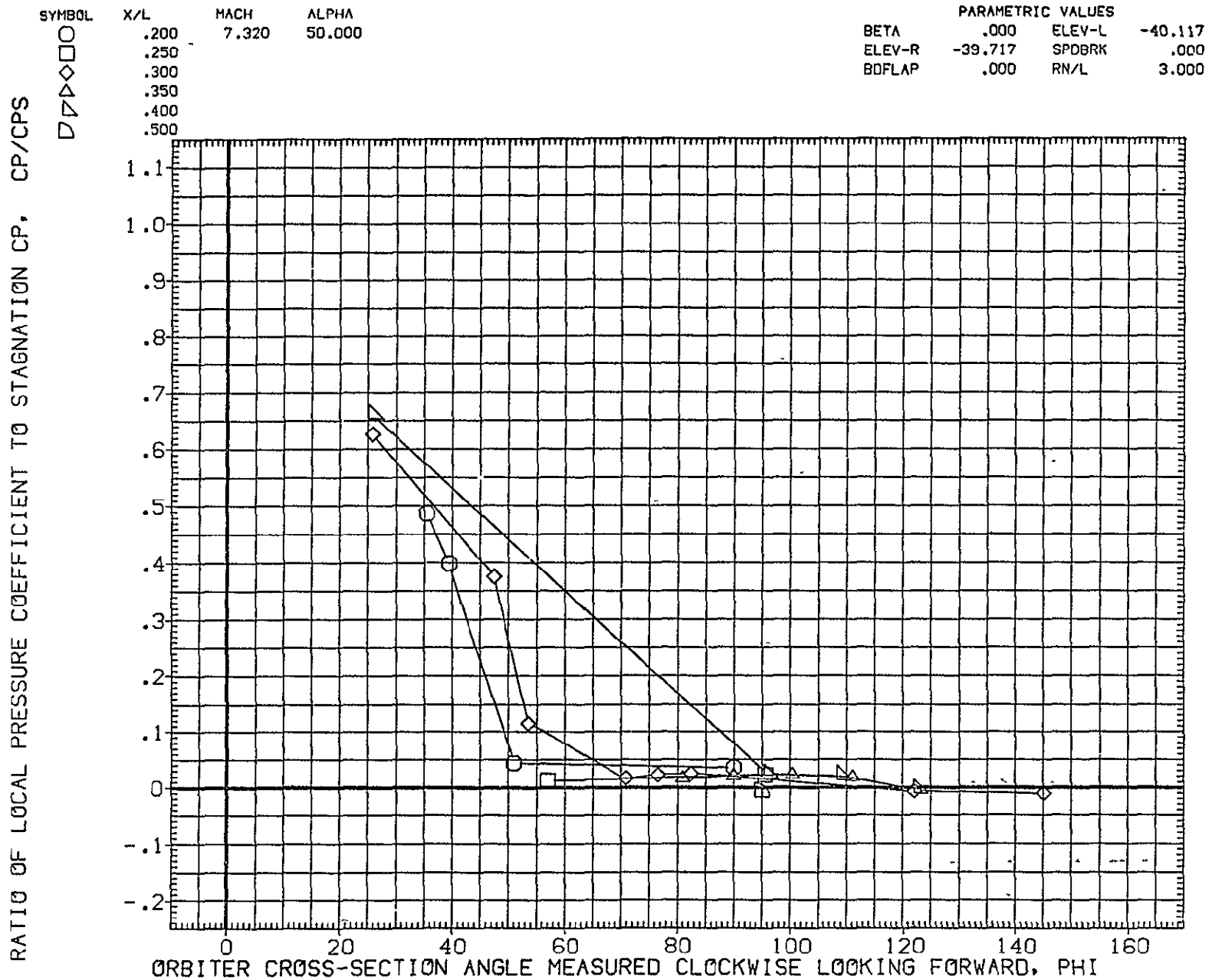


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ32)

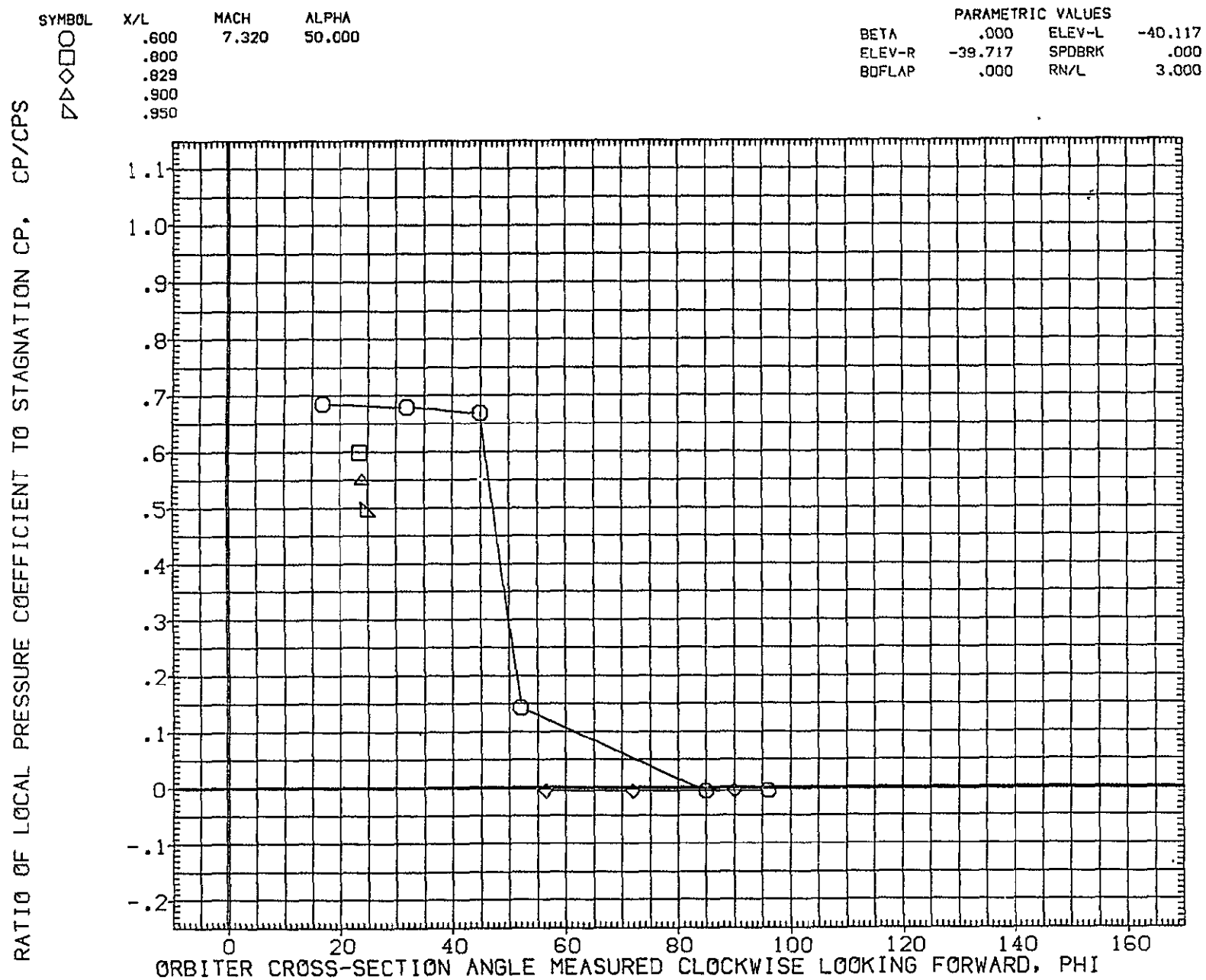


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

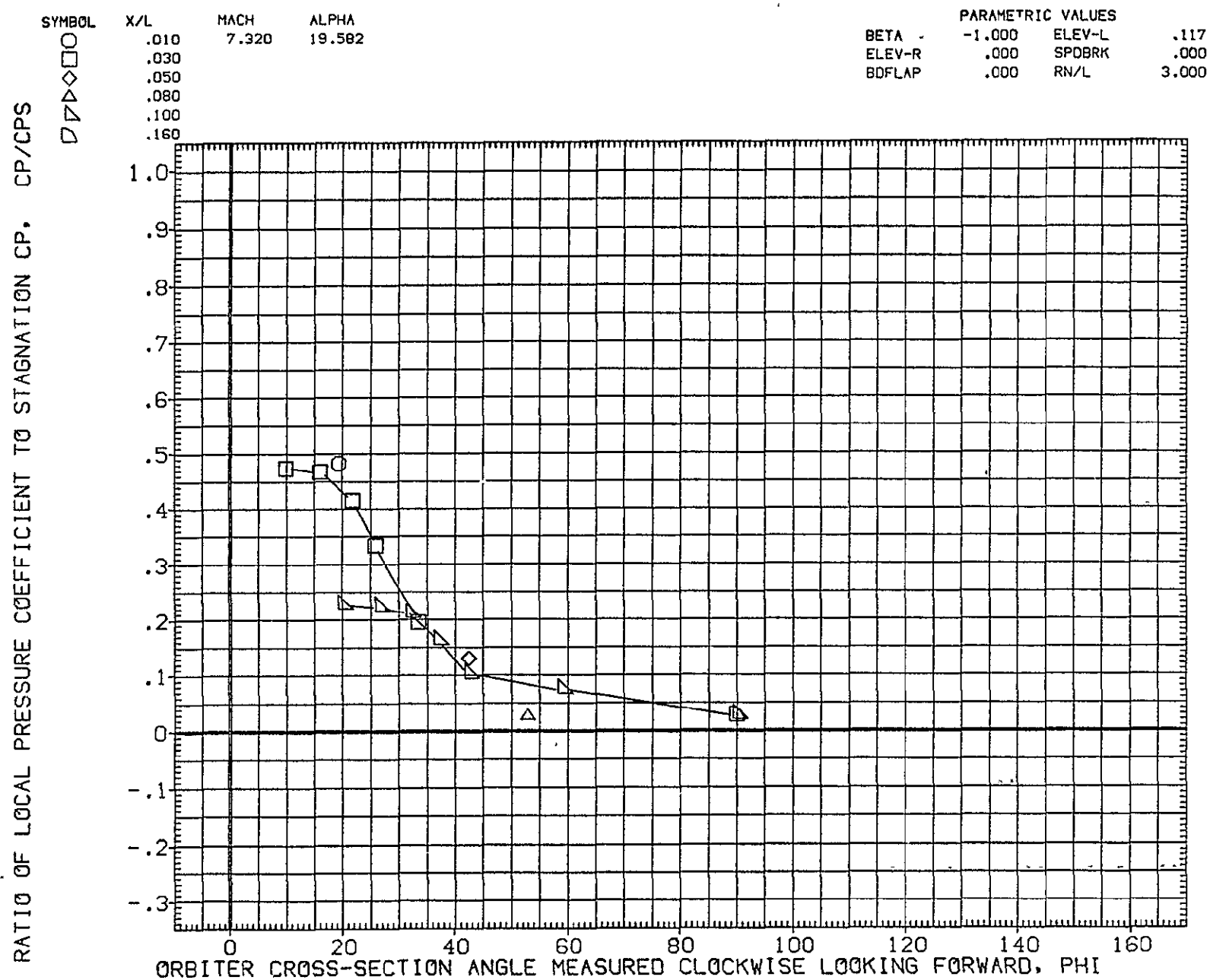


FIG. 12 FUSELAGE CROSS SECTIONS

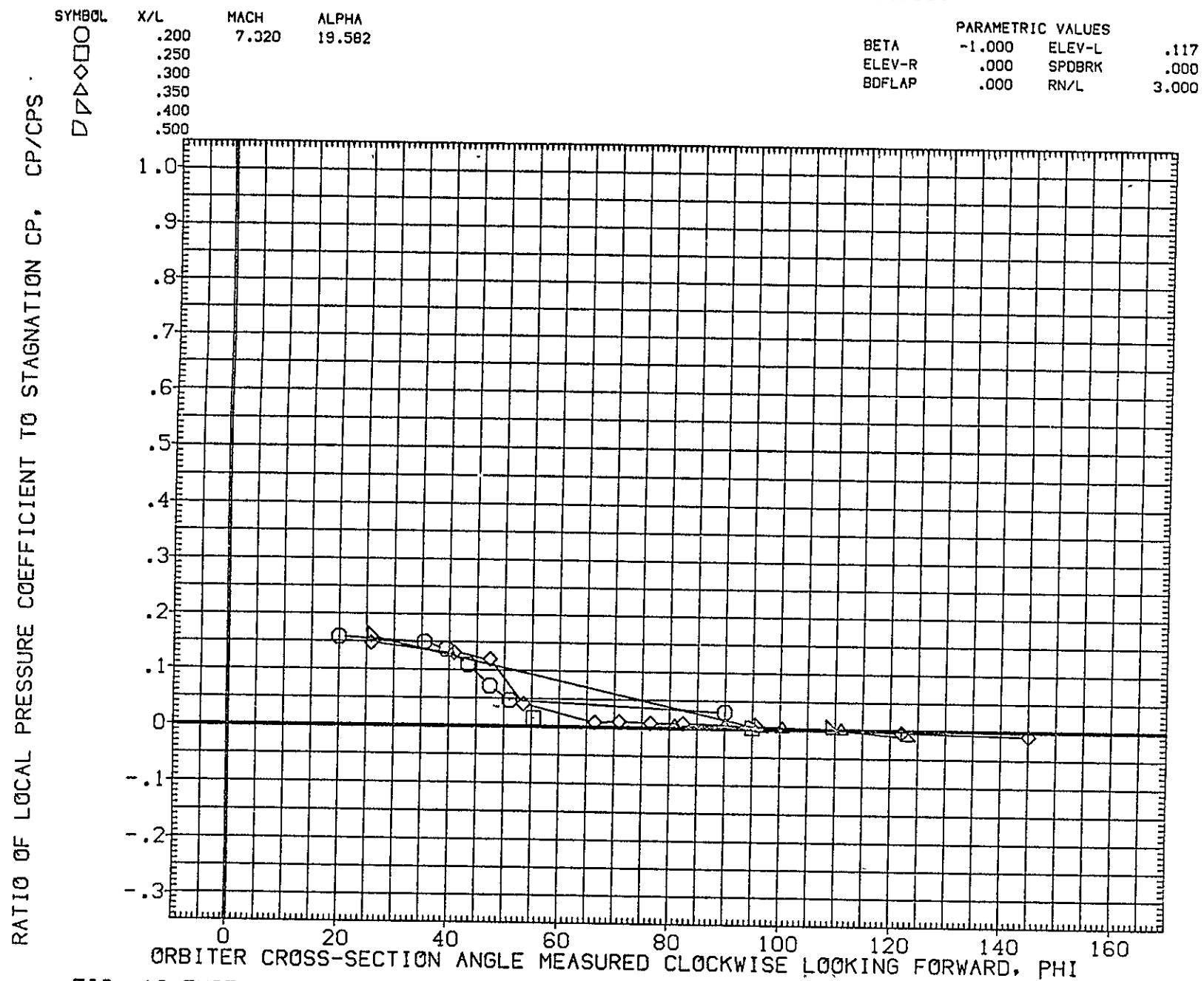


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

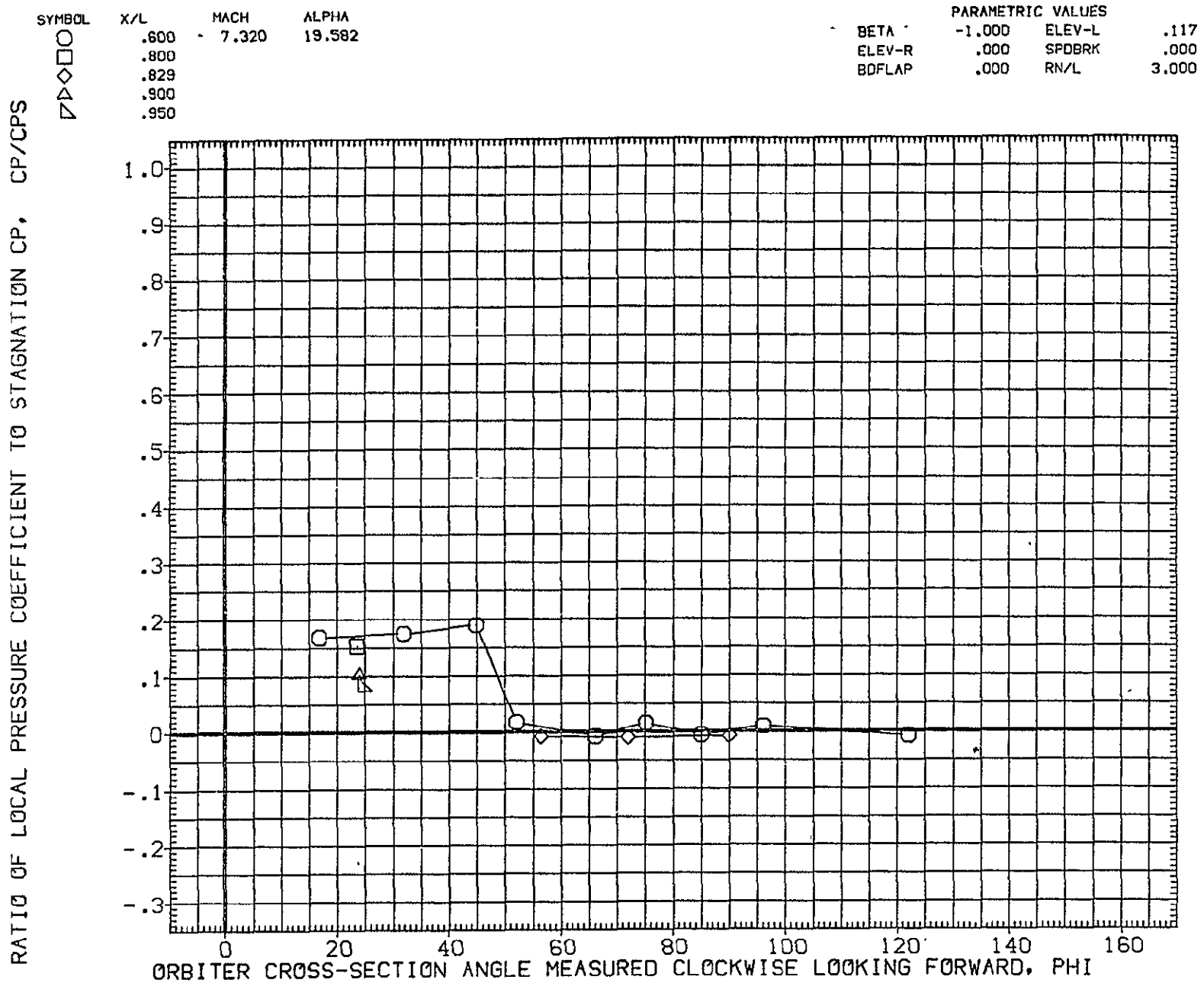


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

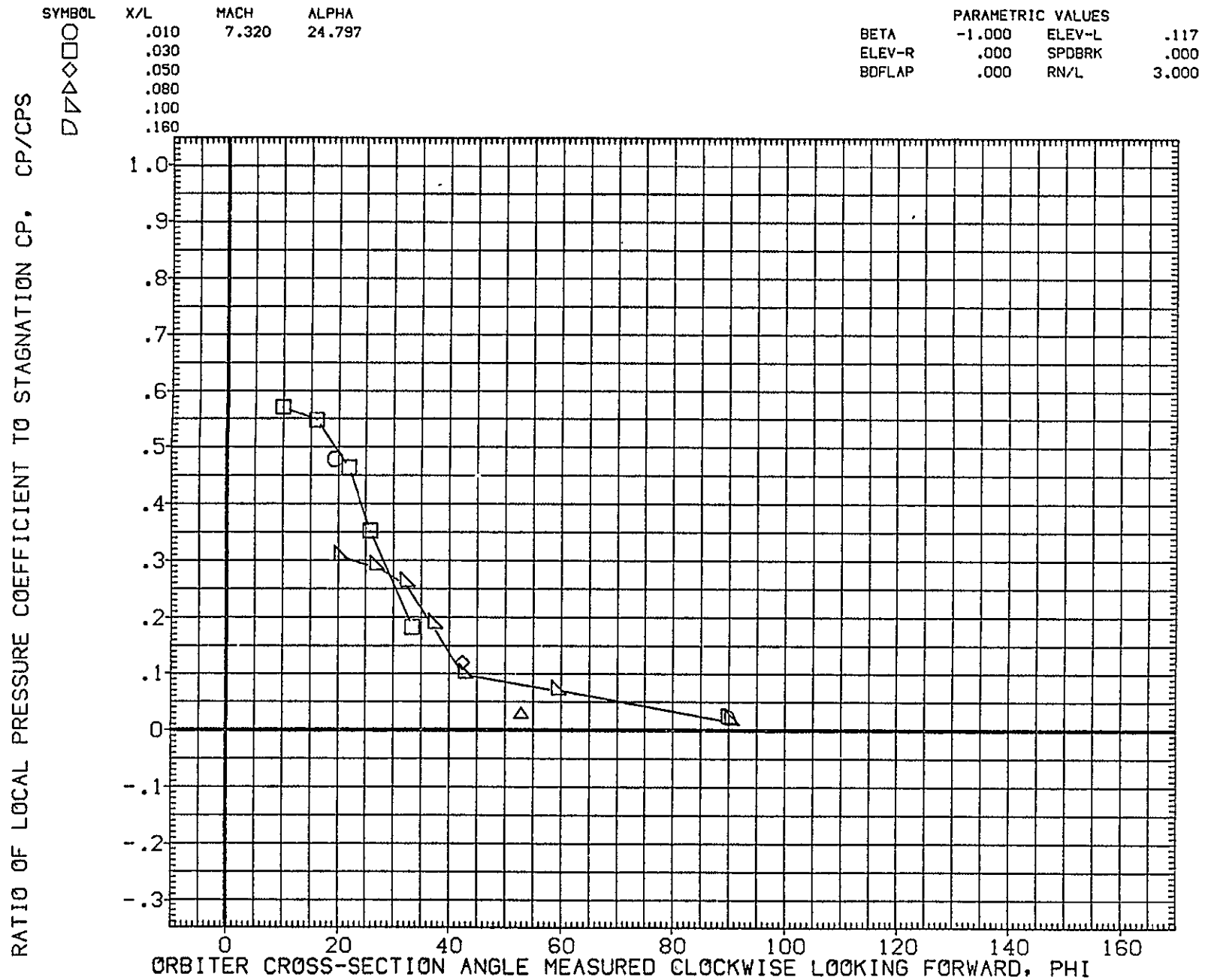


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 CH38 140C ORB FUSELAGE CROSS SECT. (BEZJ16)

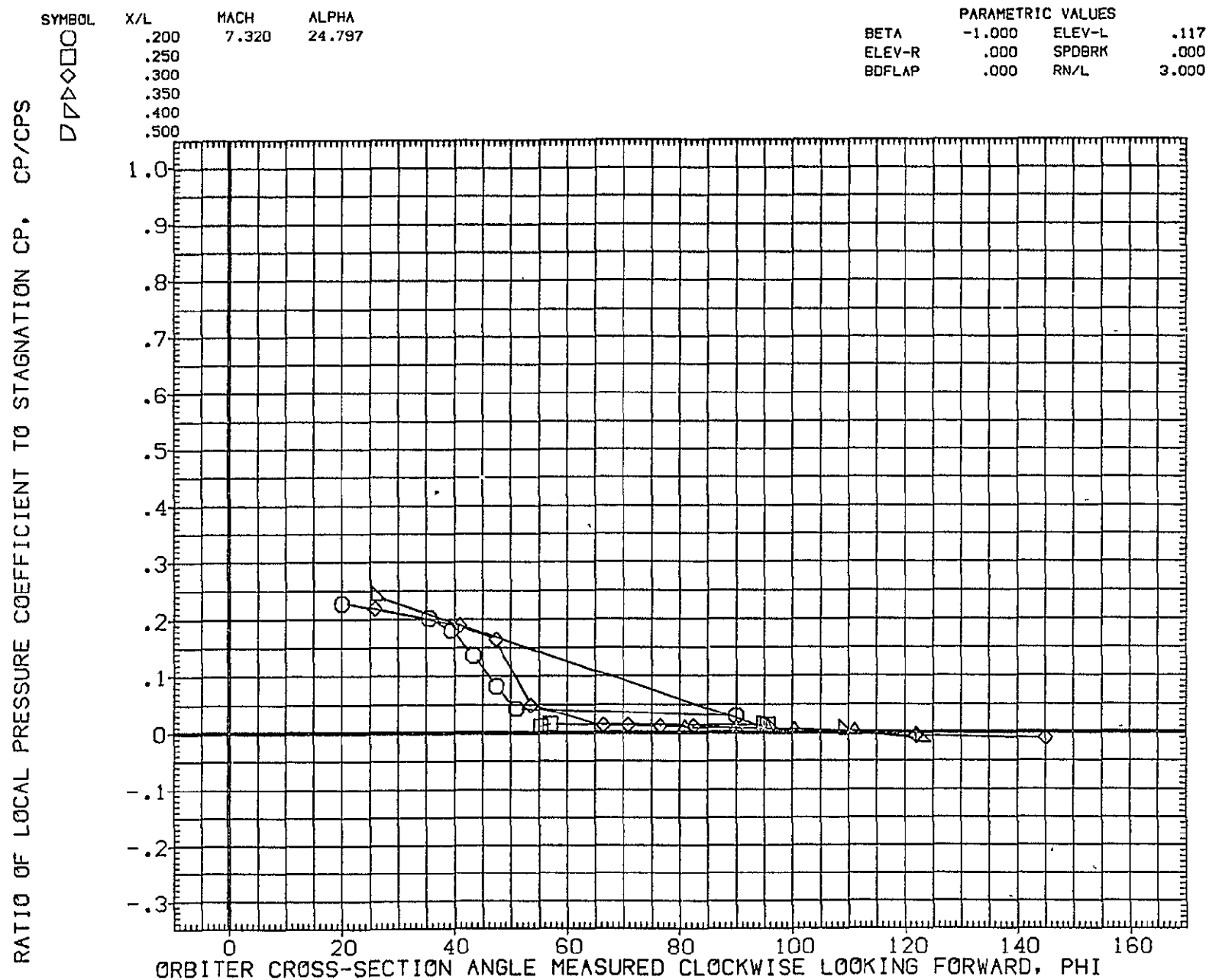


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

SYMBOL  
 $\square$   
 $\diamond$   
 $\triangle$   
 $\square$   
 $\diamond$   
 $\triangle$

X/L	MACH	ALPHA
.600	7.320	24.797
.800		
.829		
.900		
.950		

PARAMETRIC VALUES		
BETA	-1.000	ELEV-L .117
ELEV-R	.000	SPDBRK .000
BDFLAP	.000	RN/L 3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS



FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

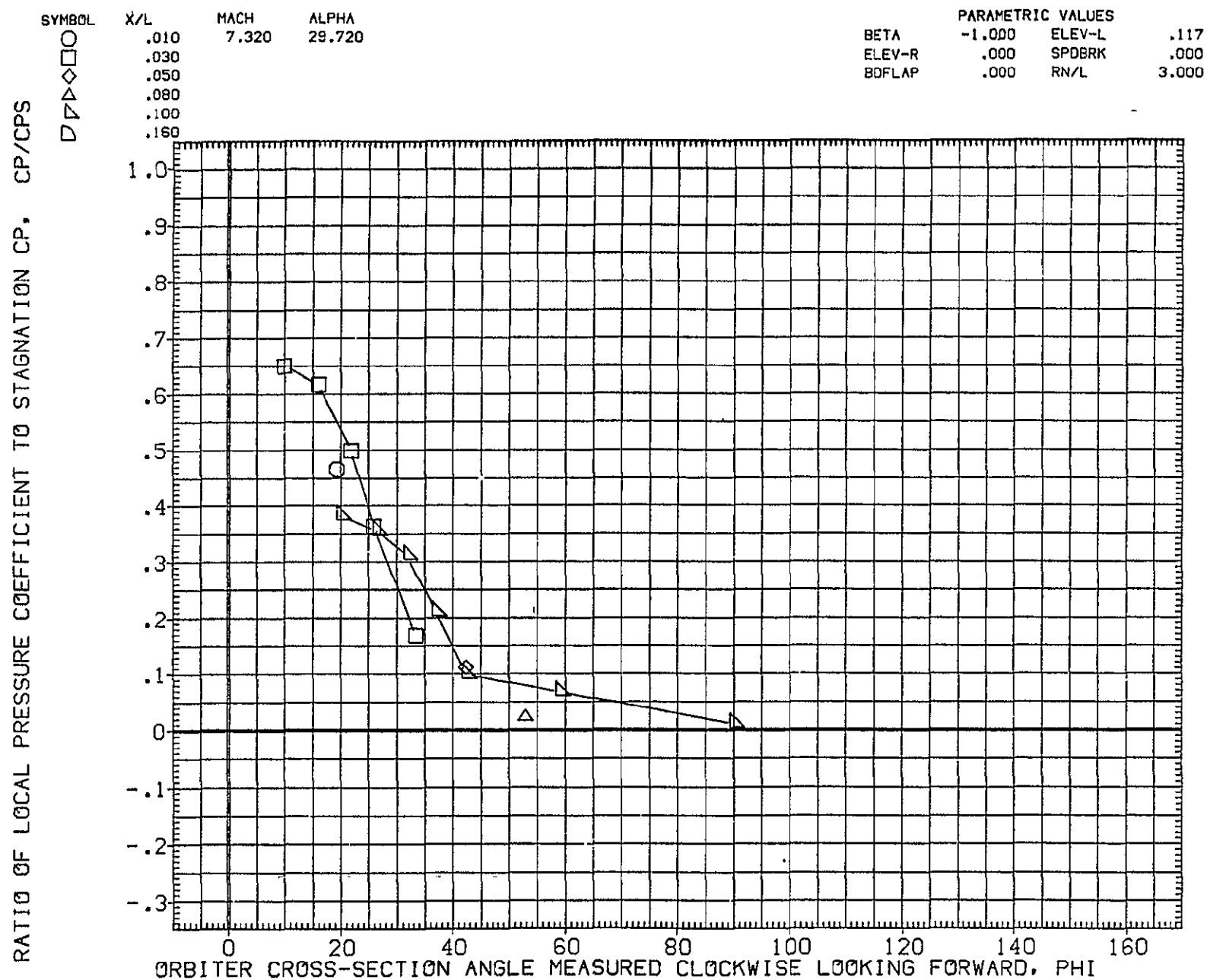


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 OH38 140C ORB FUSELAGE CROSS SECT. (BEZJ16)

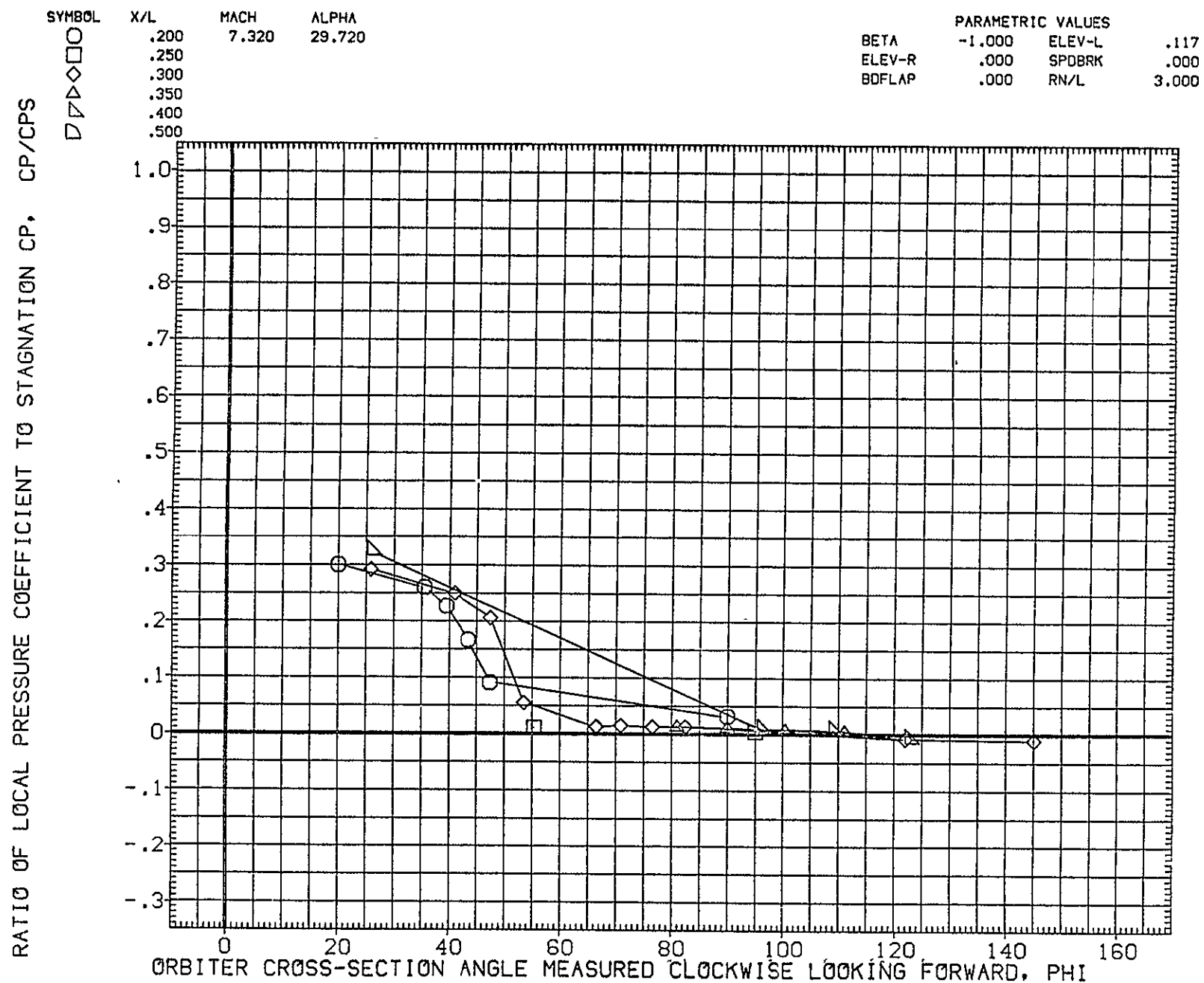


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

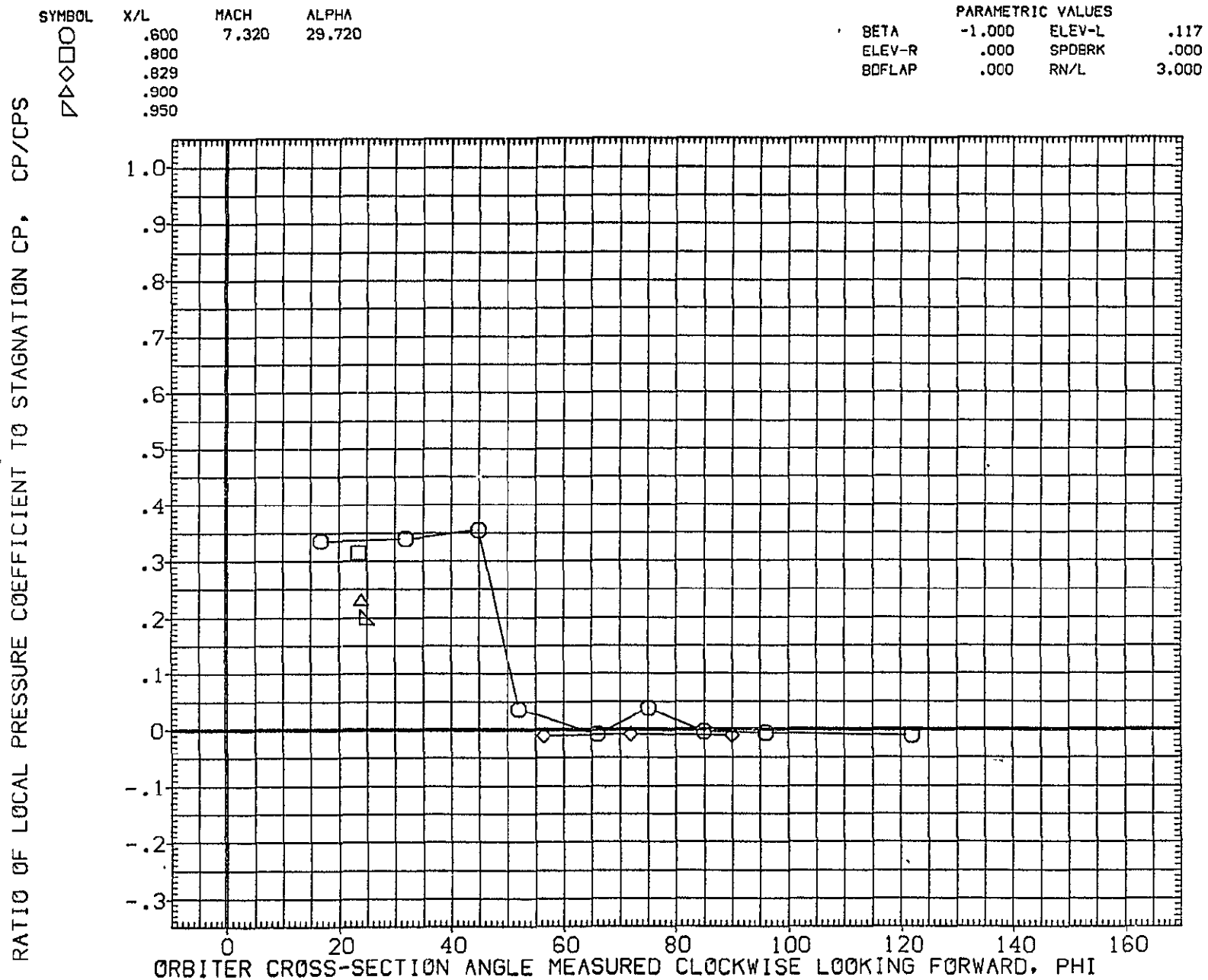


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

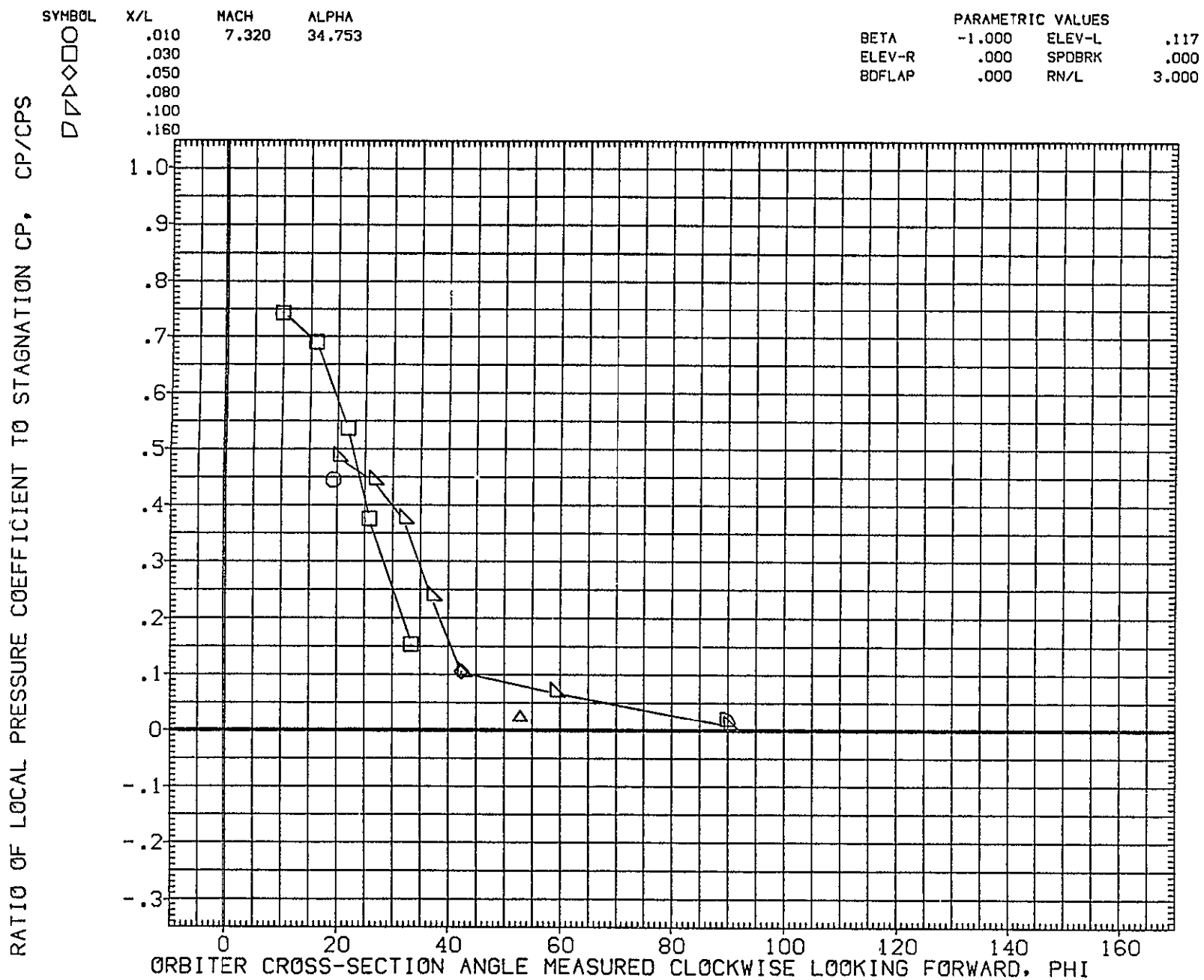


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

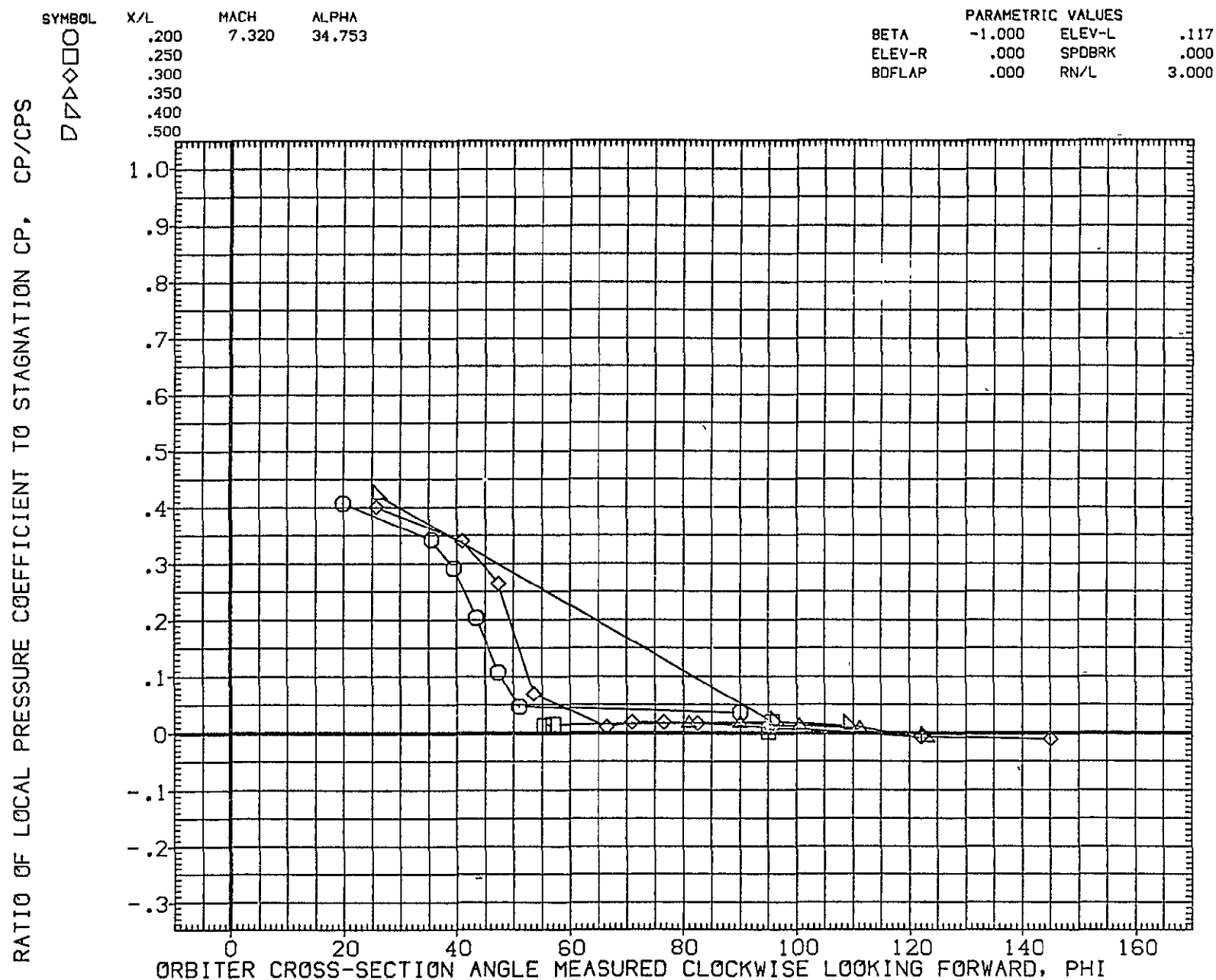


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ16)

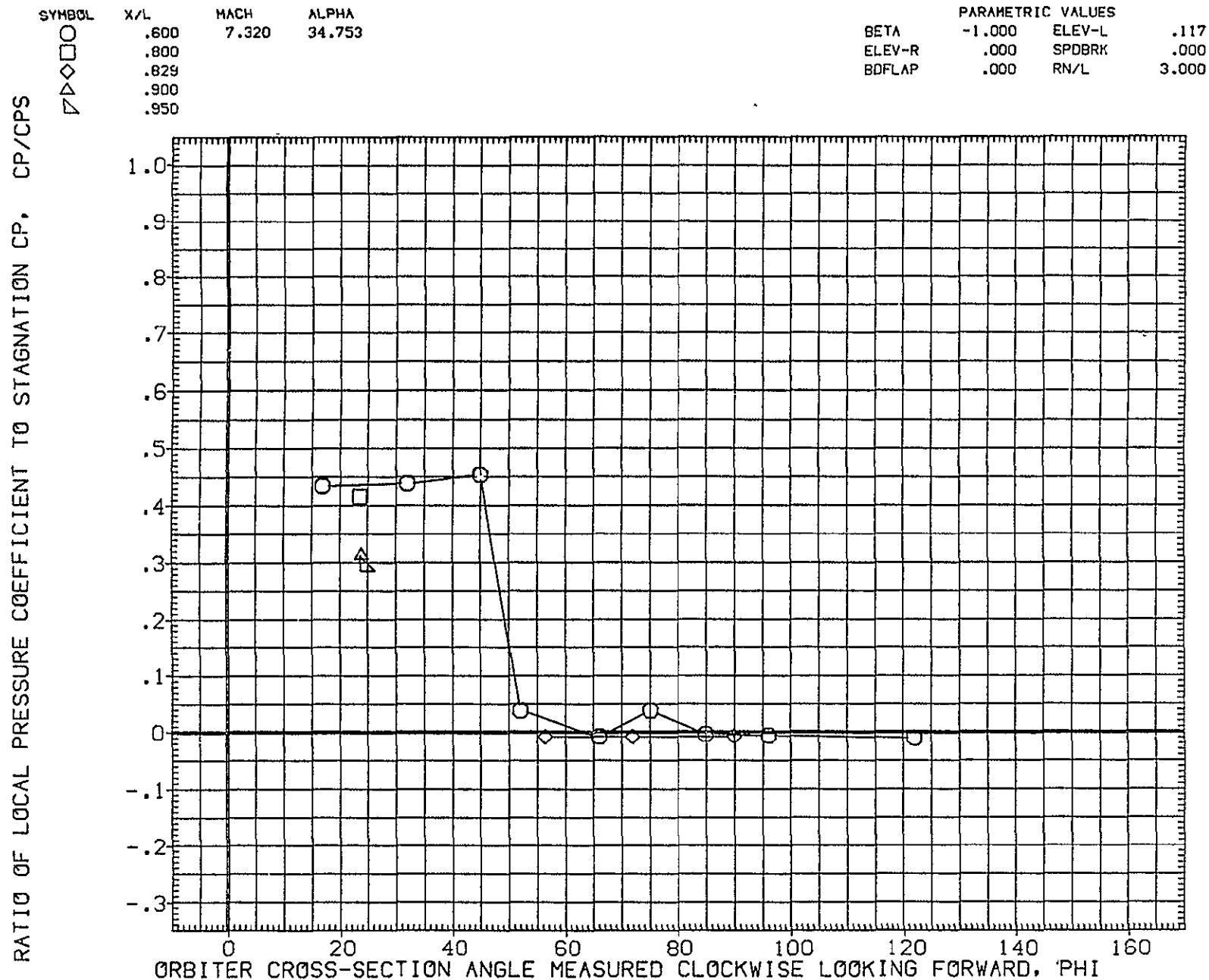


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

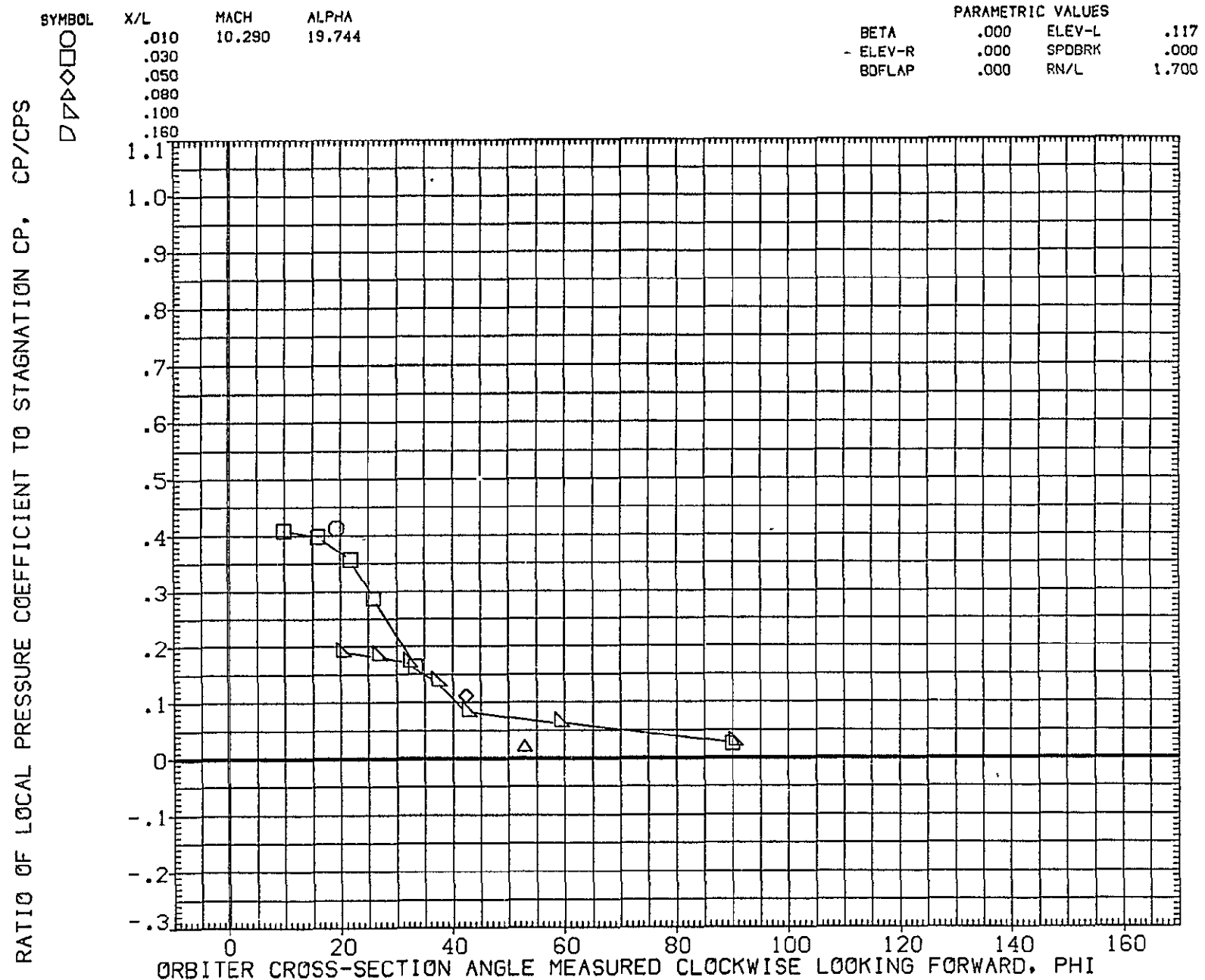


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

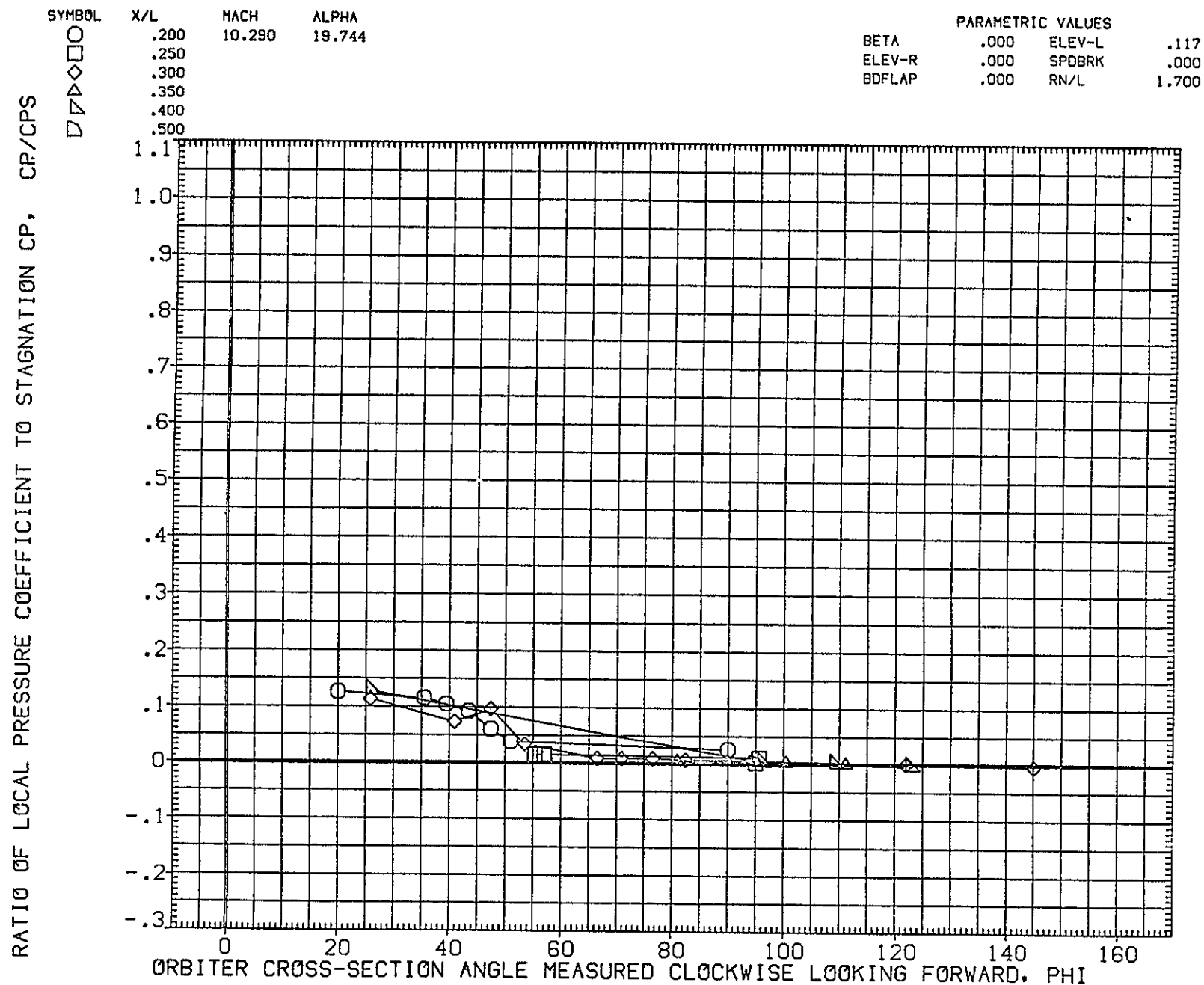


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

SYMBOL  
 ○ □ ◇ △ ▽

X/L	MACH	ALPHA
.600	10.290	19.744
.800		
.829		
.900		
.950		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SP0BRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

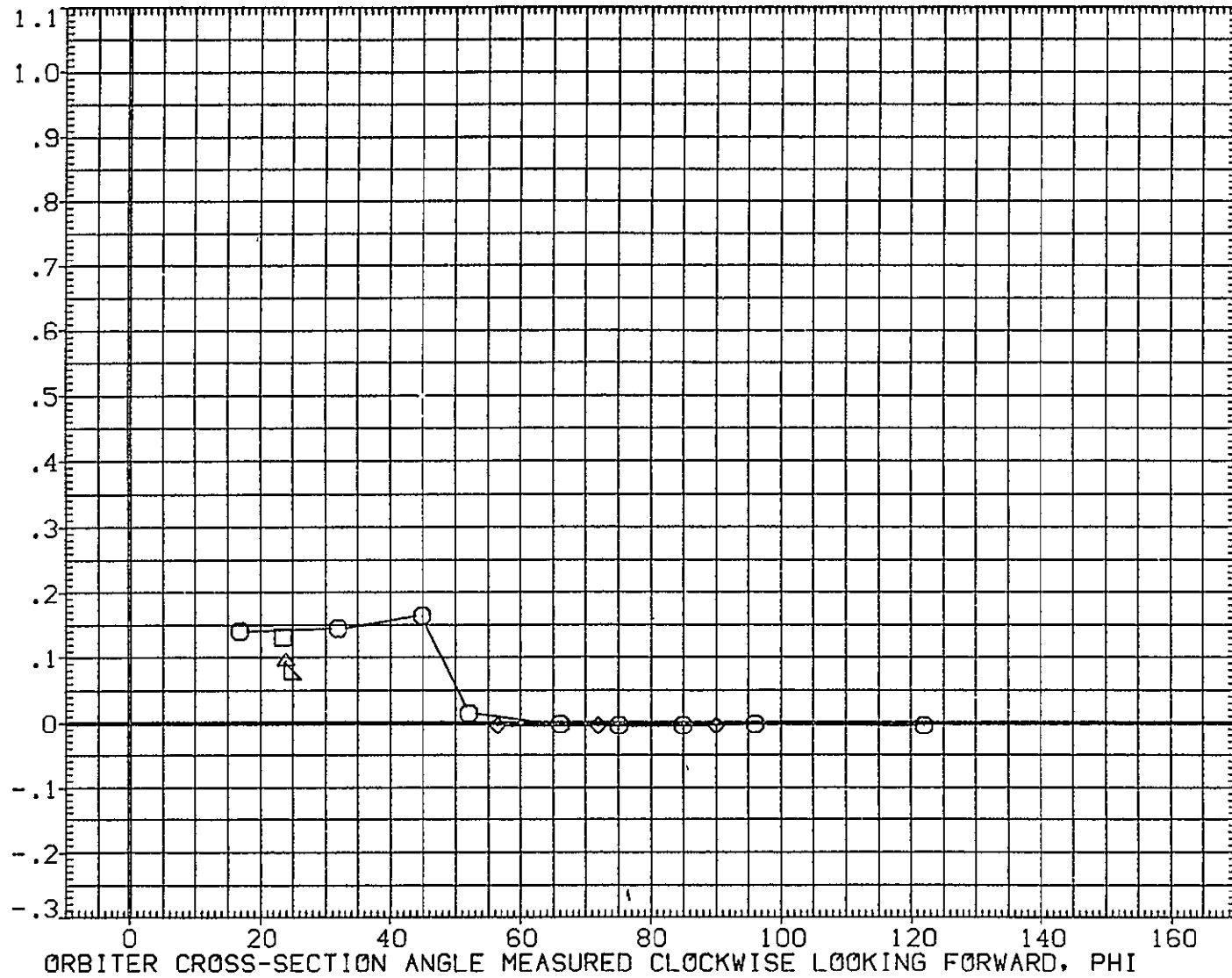


FIG. 12 FUSELAGE CROSS SECTIONS

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

G >

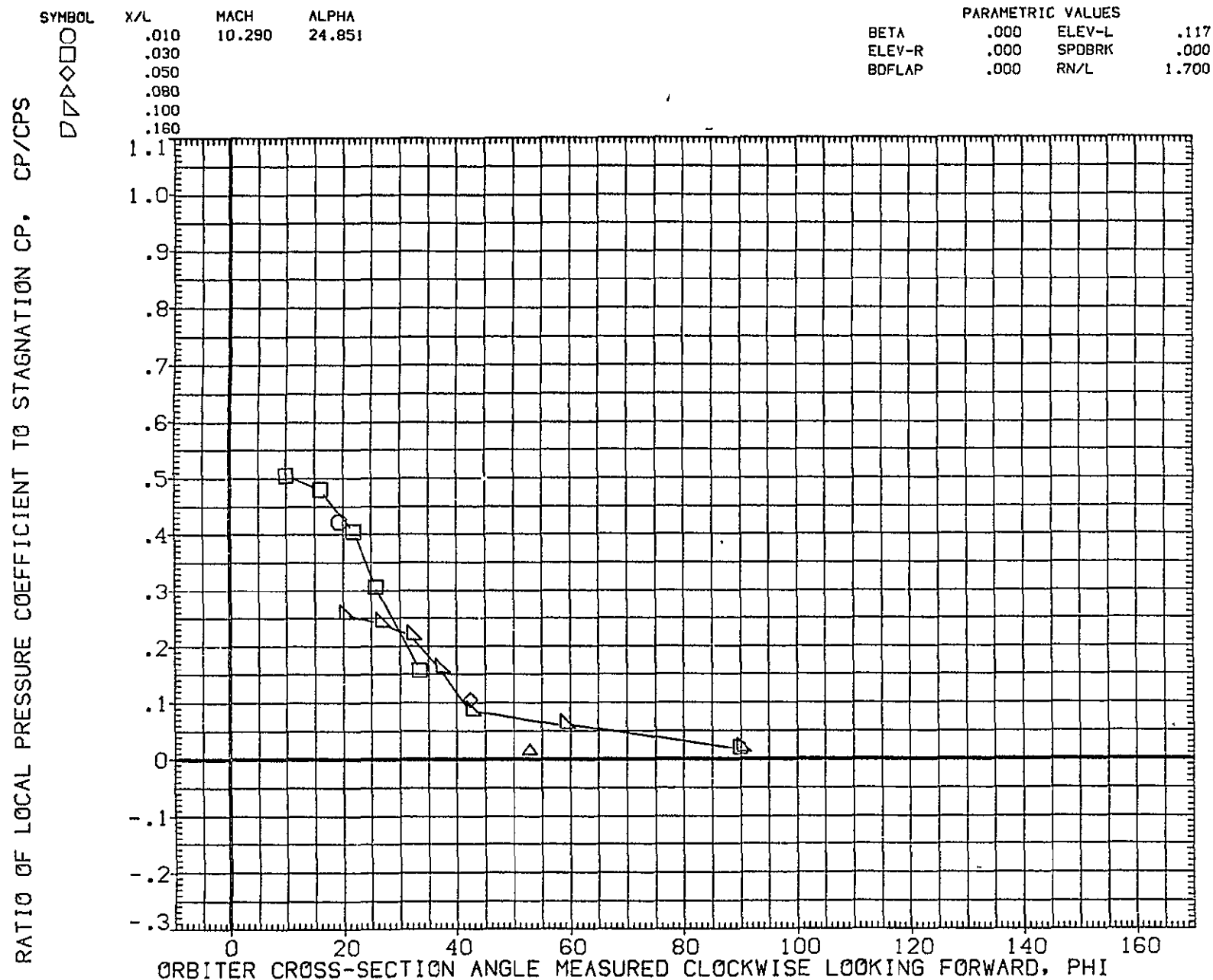


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

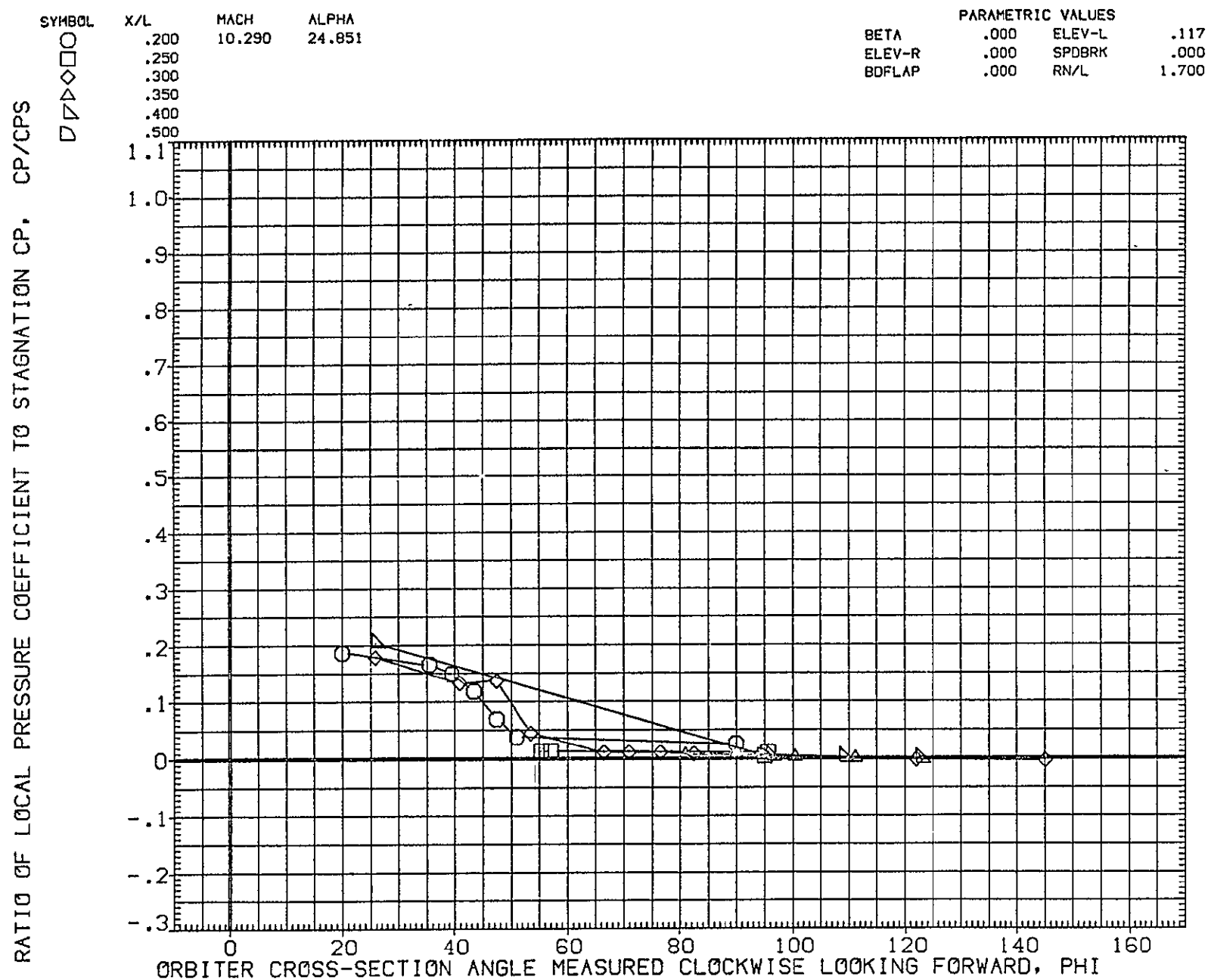


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

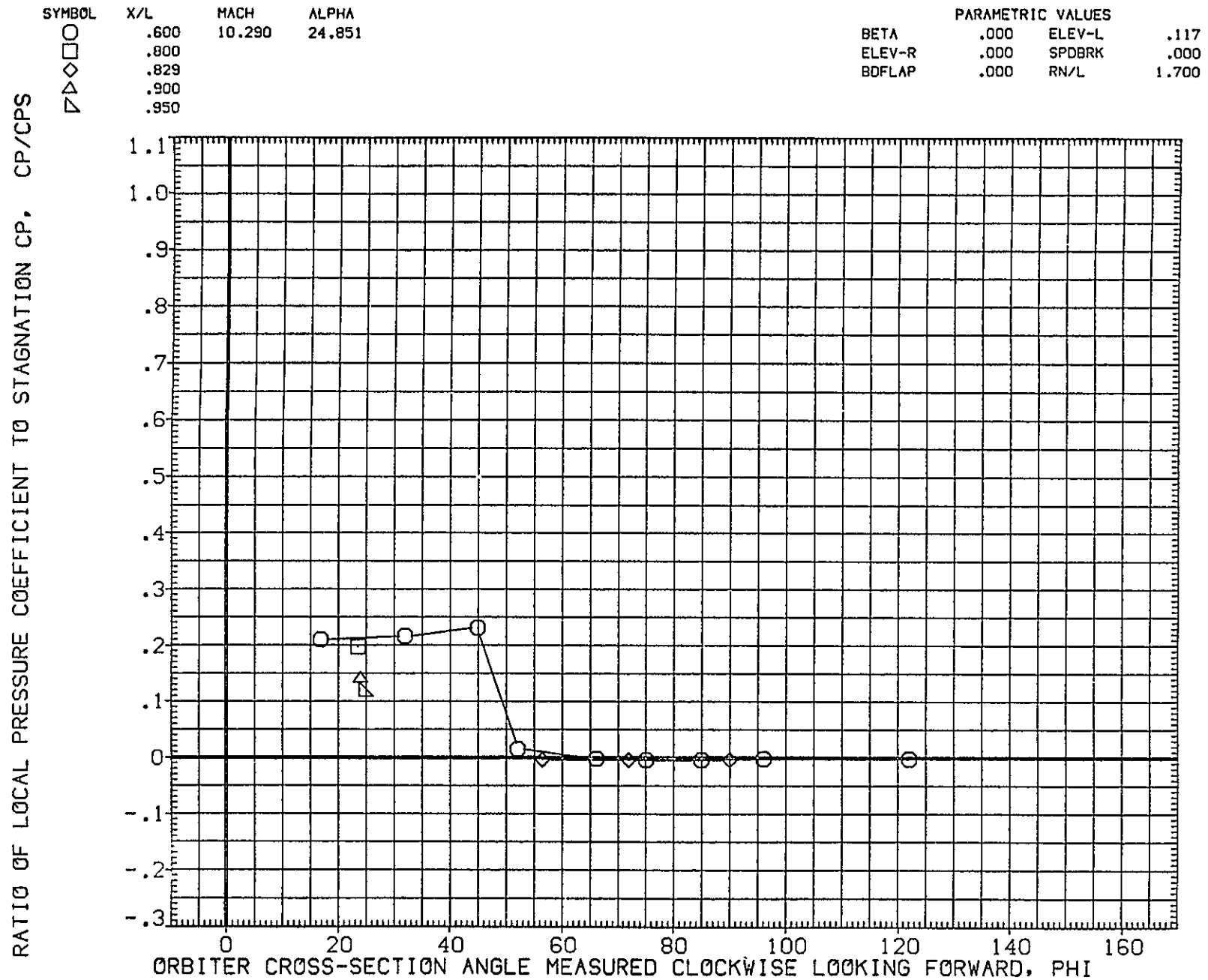


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

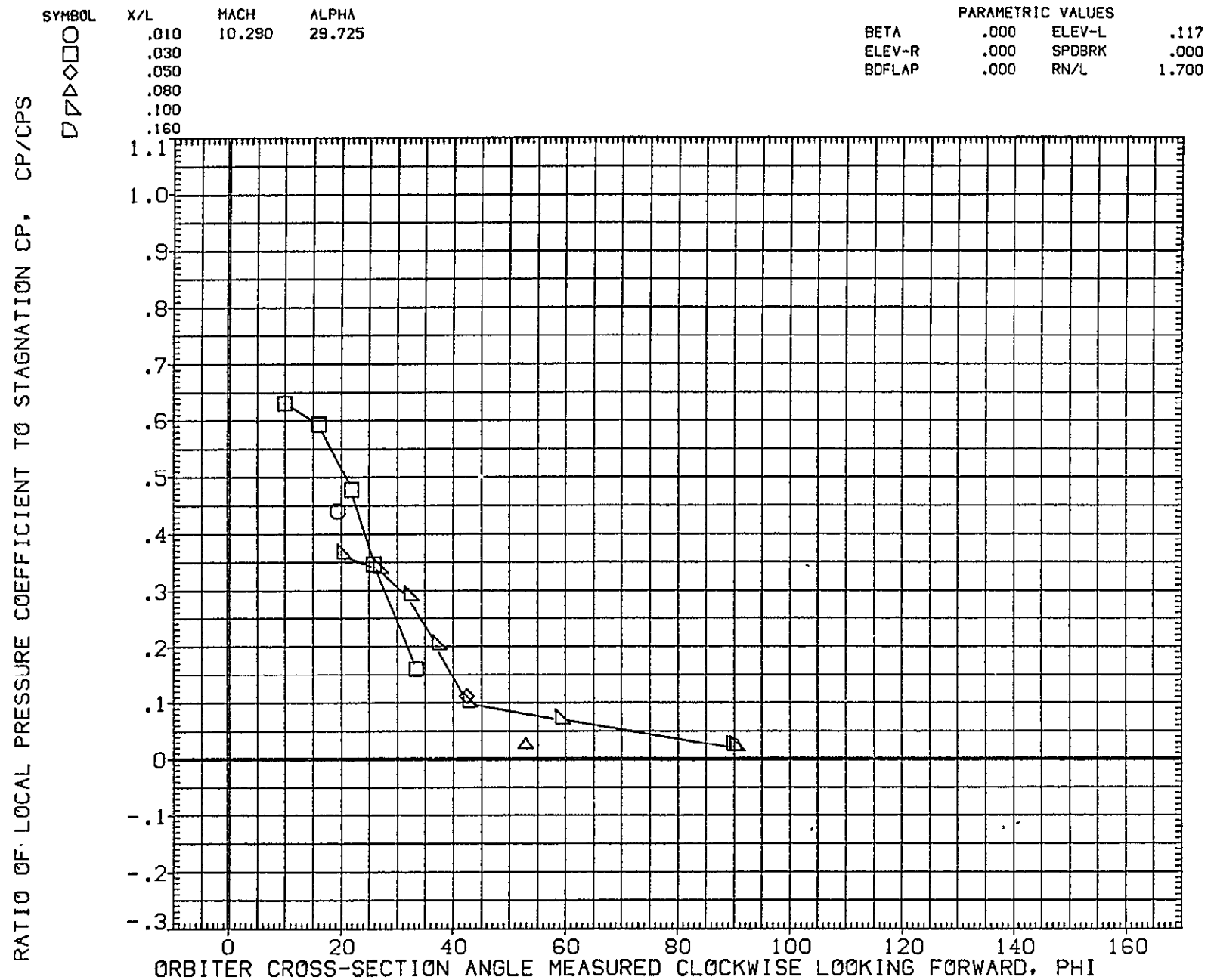


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

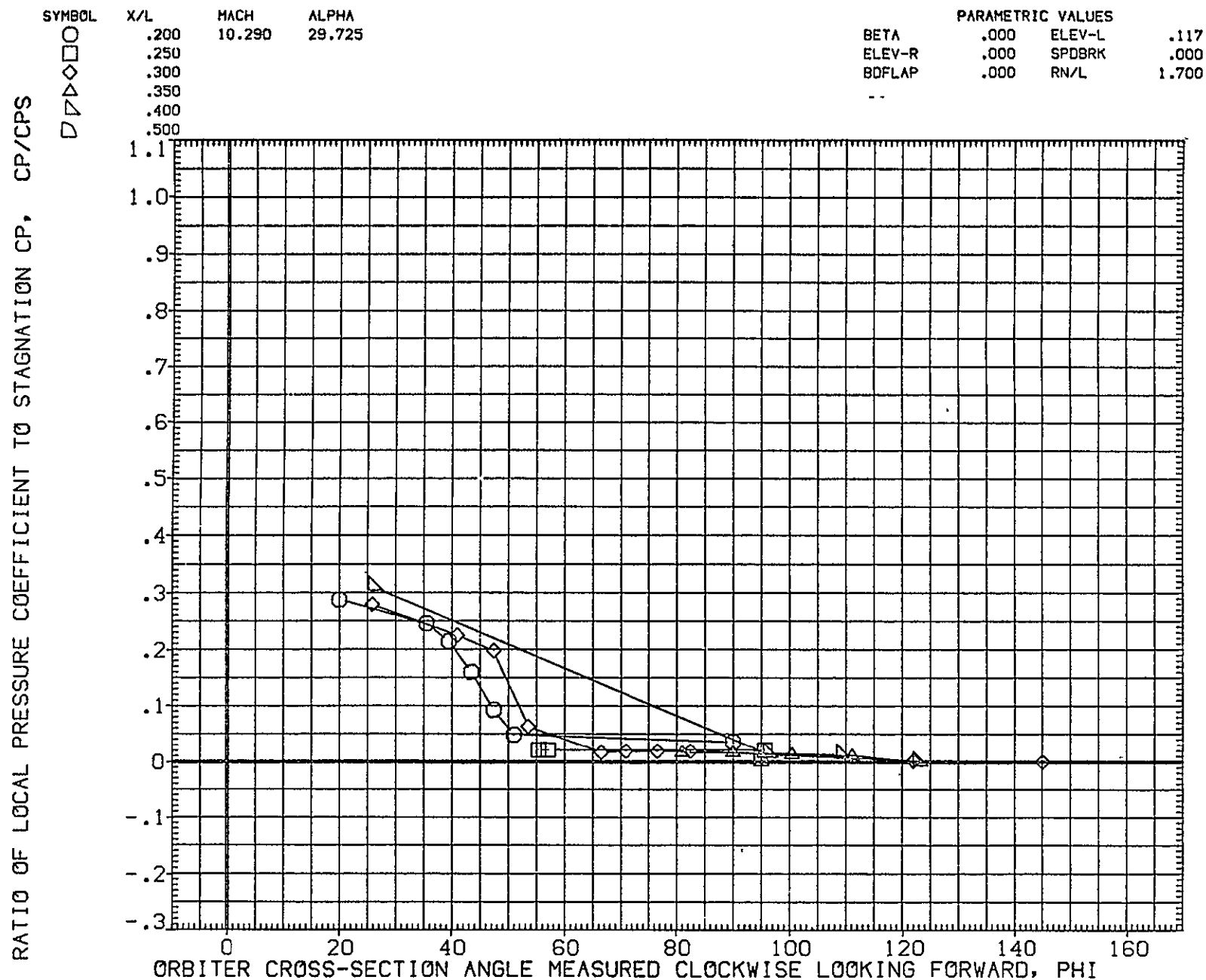


FIG. 12 FUSELAGE CROSS SECTIONS



ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

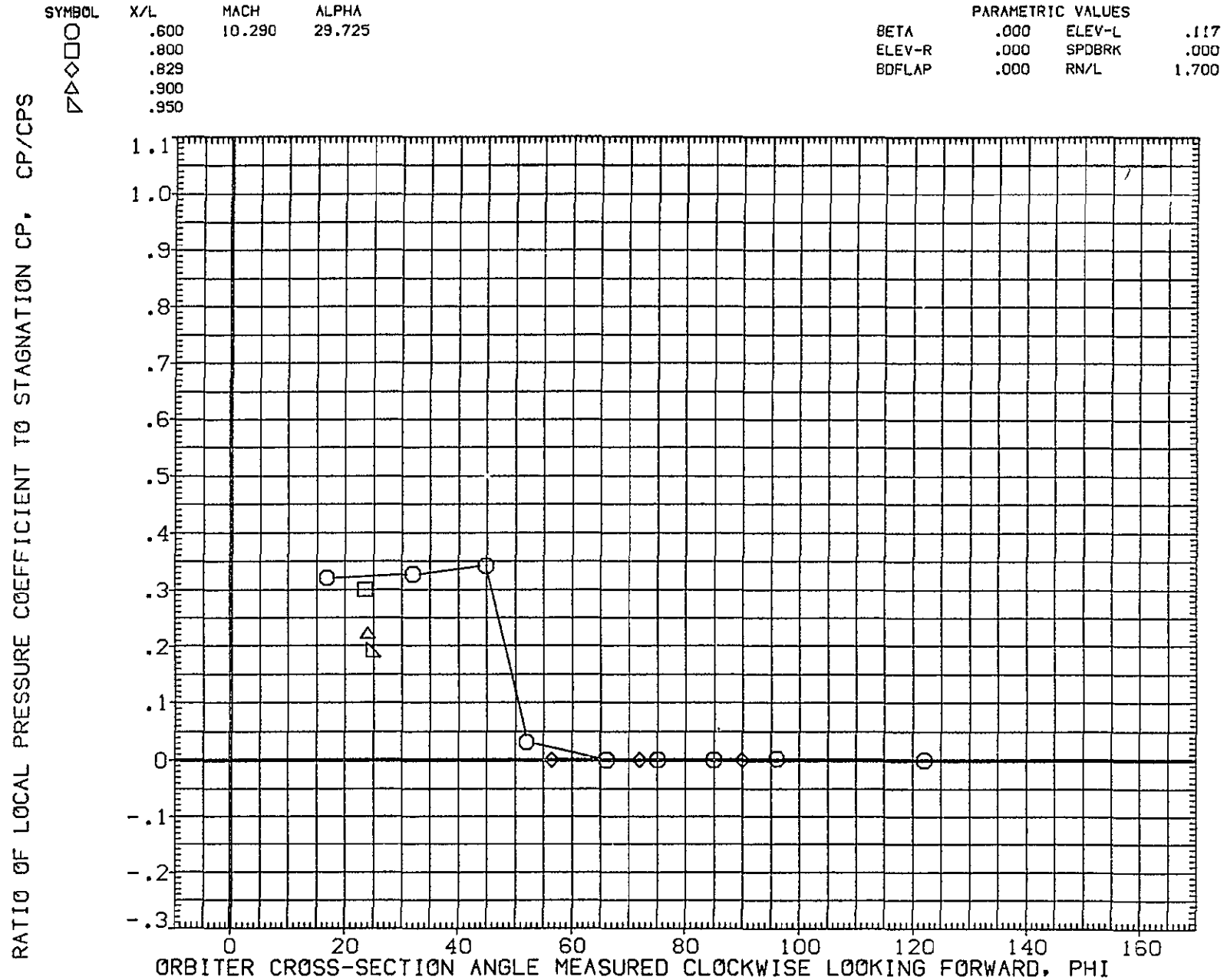


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

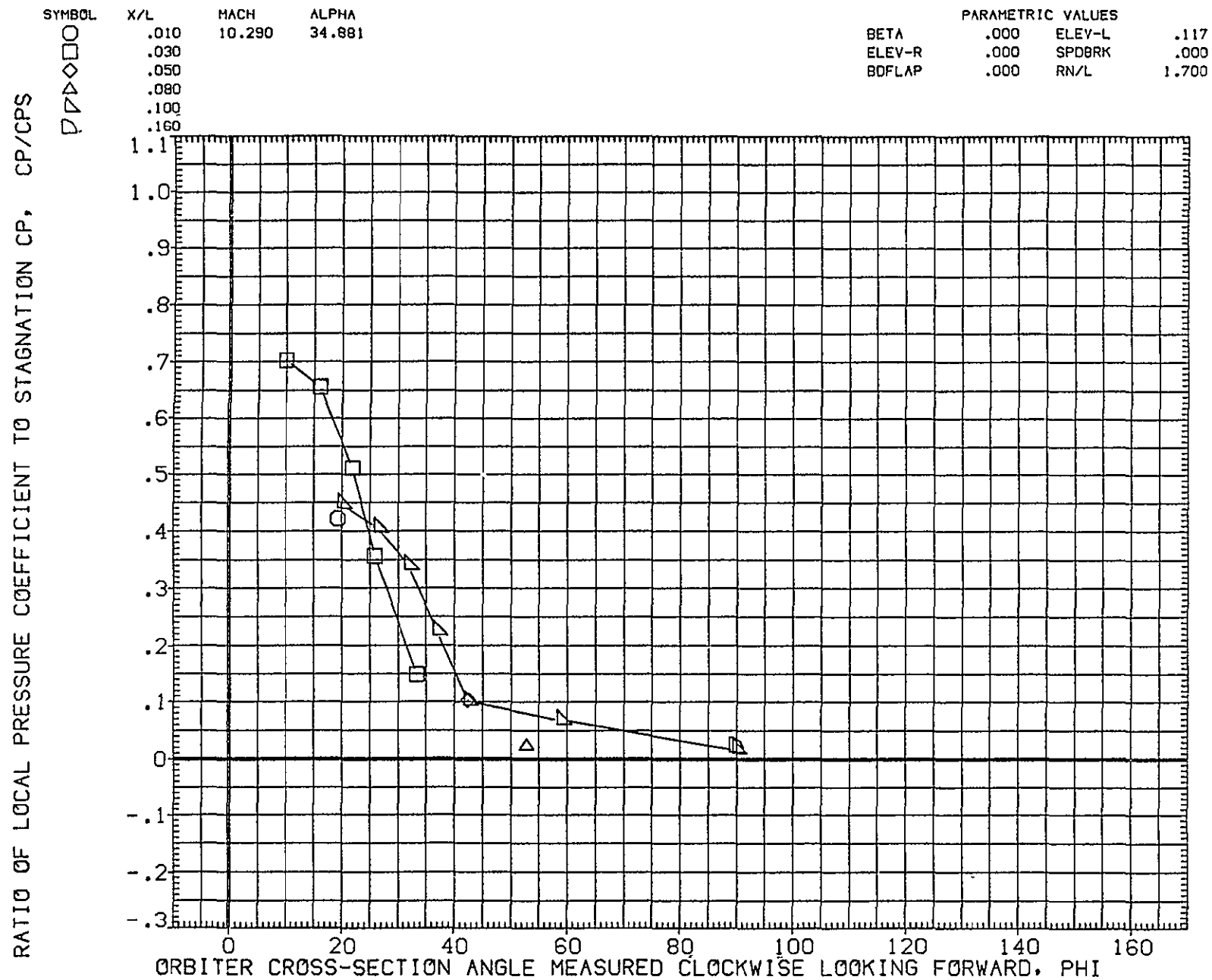


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

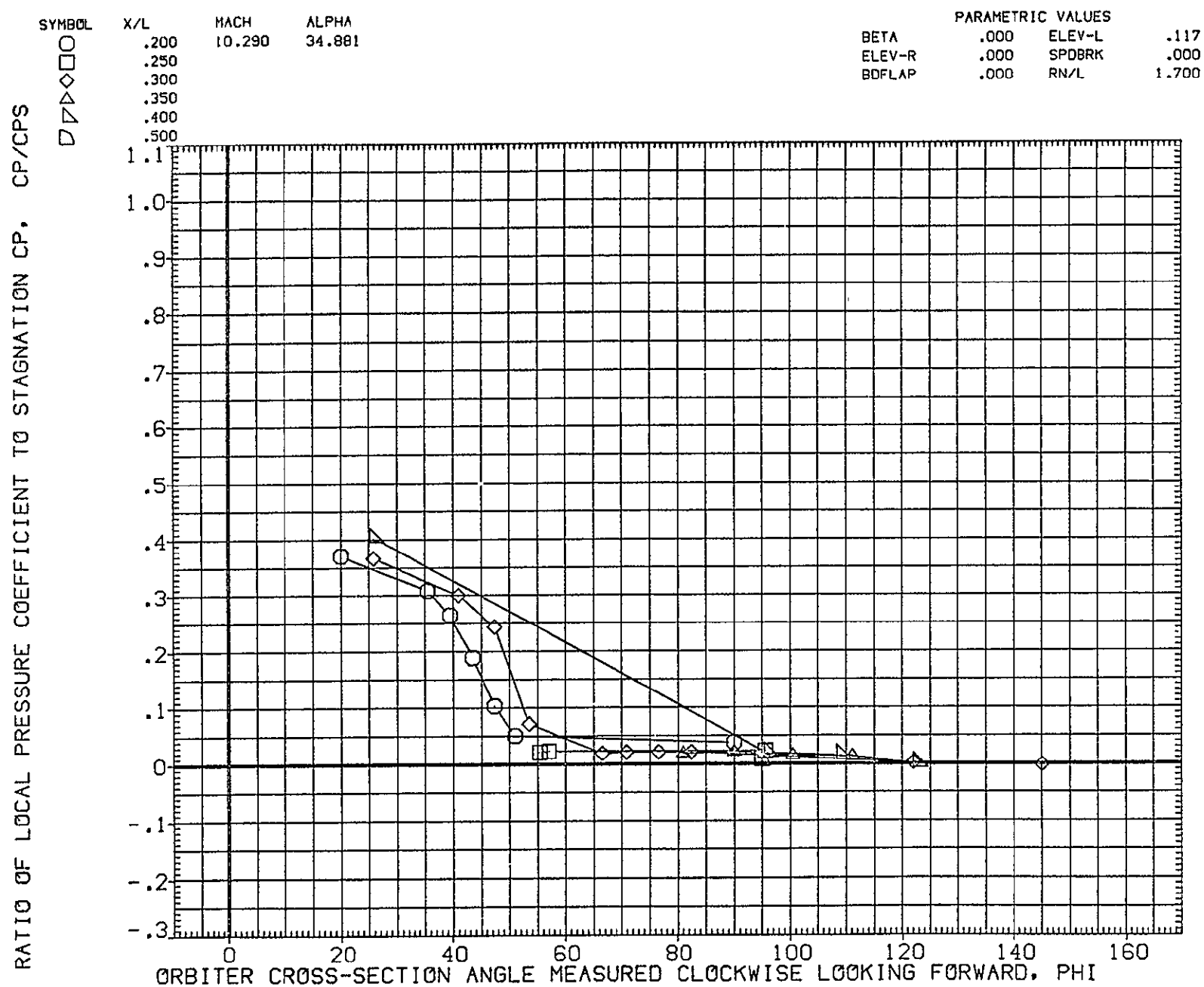


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

SYMBOL  
○  
□  
◇  
△  
▽

X/L MACH ALPHA  
.600 10.290 34.881  
.800  
.829  
.900  
.950

PARAMETRIC VALUES  
BETA .000 ELEV-L .117  
ELEV-R .000 SPDBRK .000  
BDFLAP .000 RN/L 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

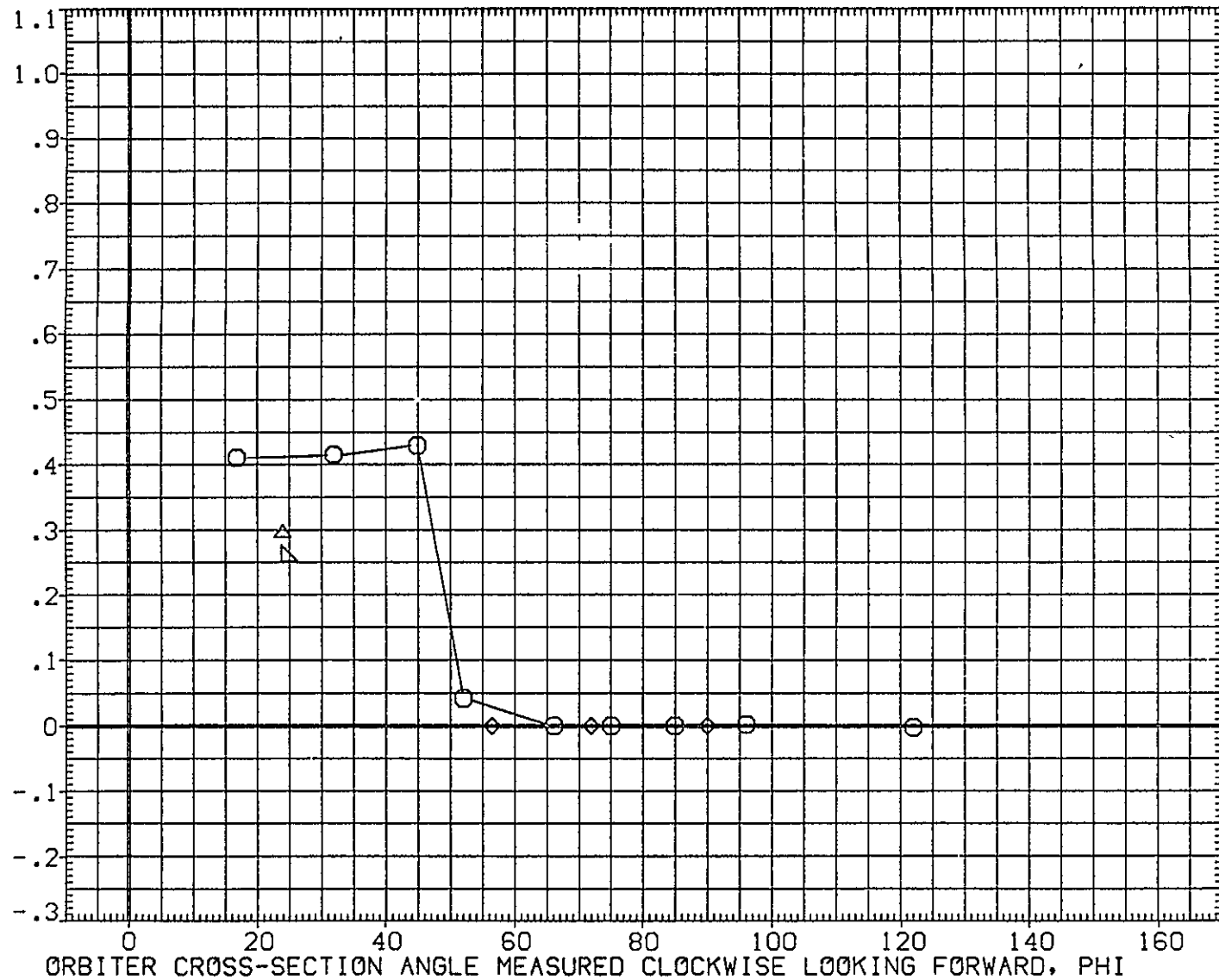


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

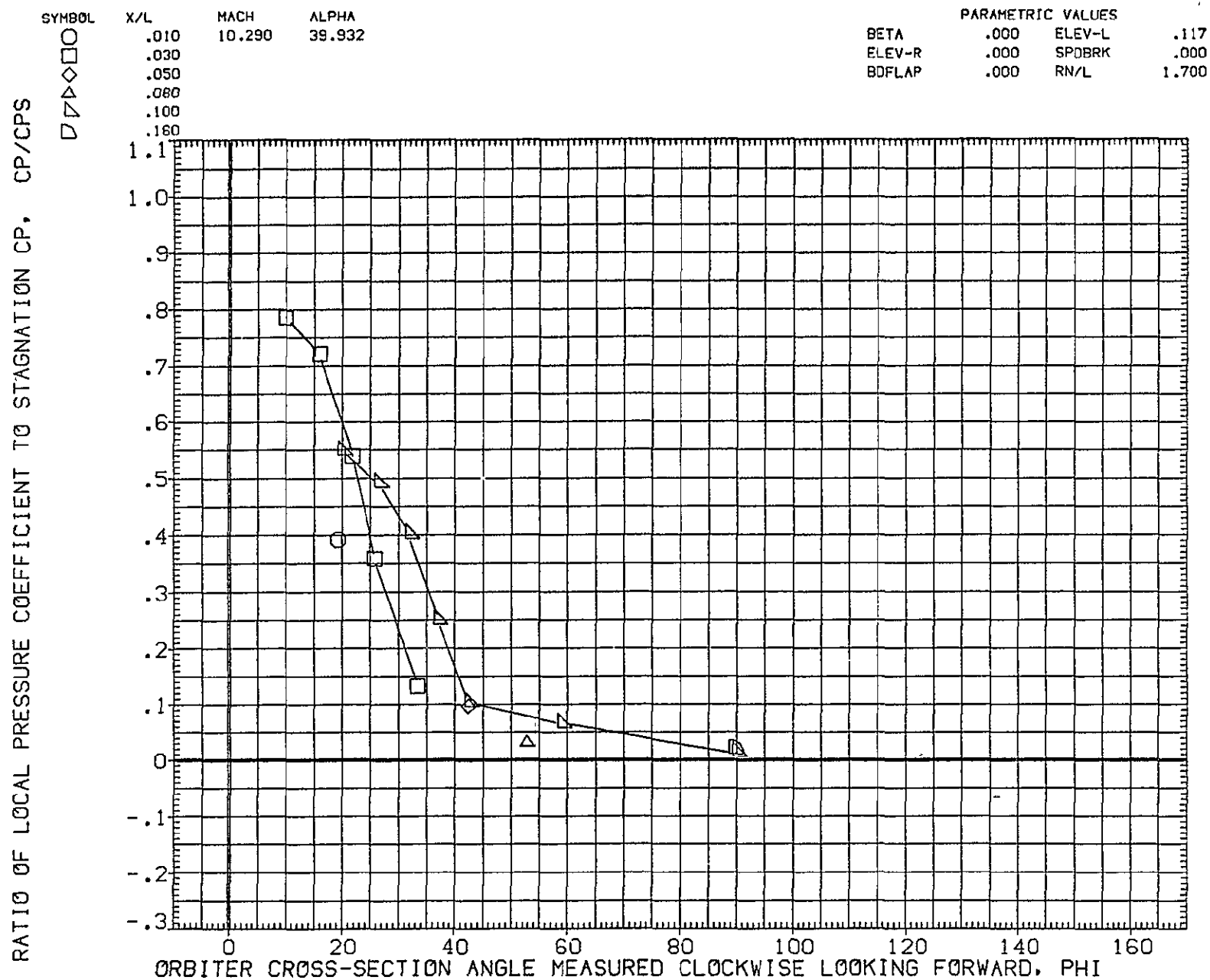


FIG. 12 FUSELAGE CROSS SECTIONS

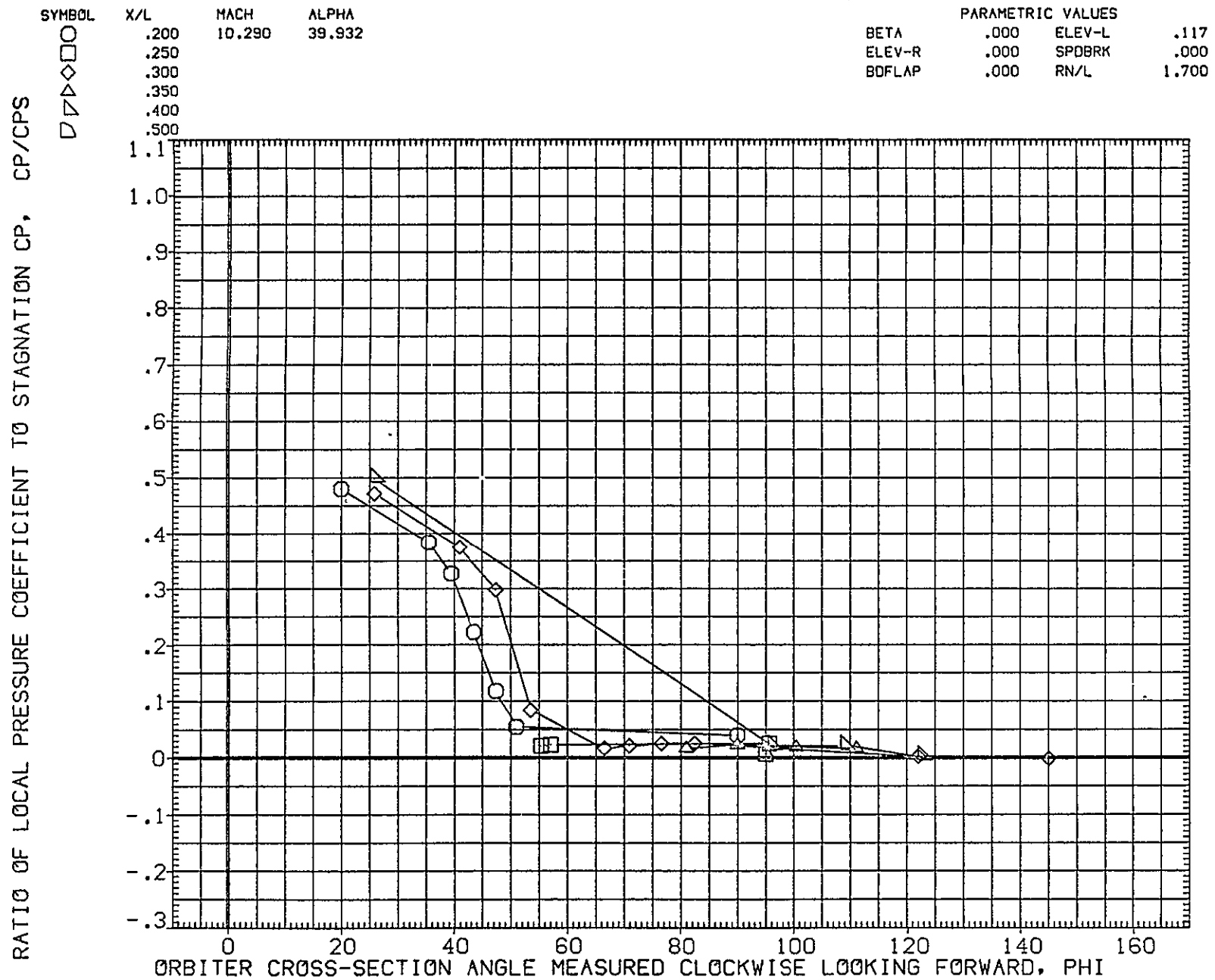


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

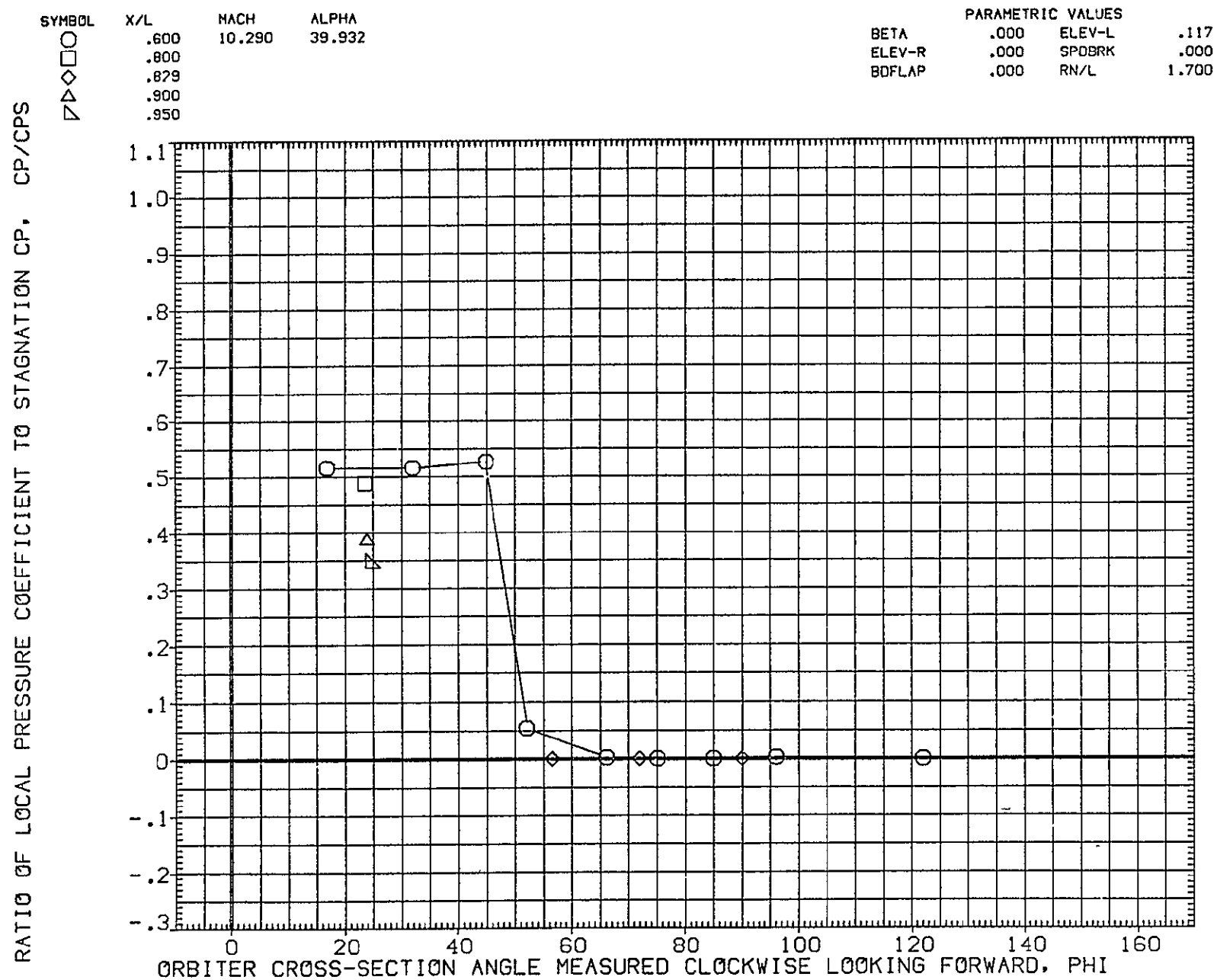


FIG. 12 FUSELAGE CROSS SECTIONS

# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

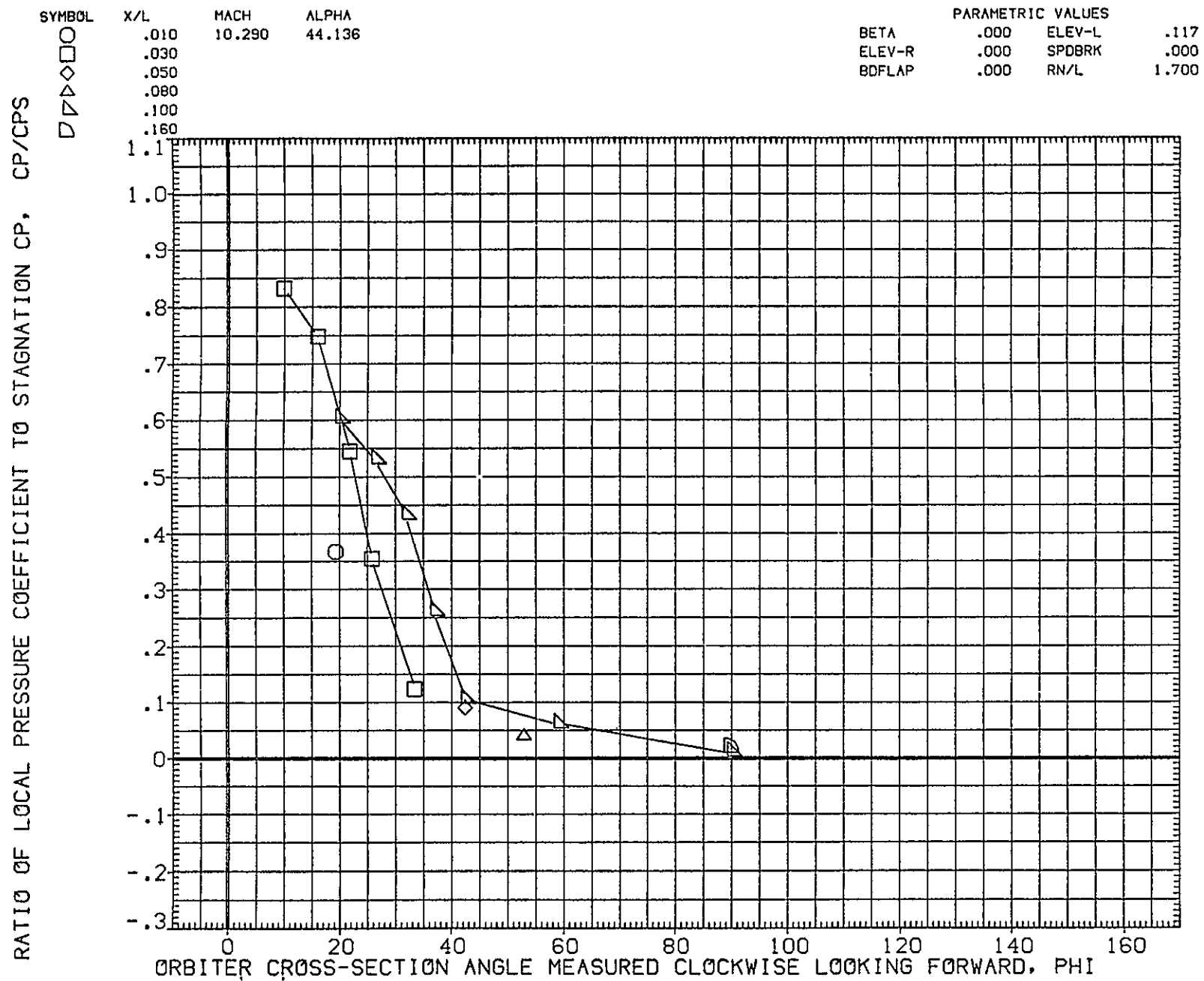


FIG. 12 FUSELAGE CROSS SECTIONS



# ARC 3.5-198 0H38 140C 0RB FUSELAGE CROSS SECT. (BEZJ20)

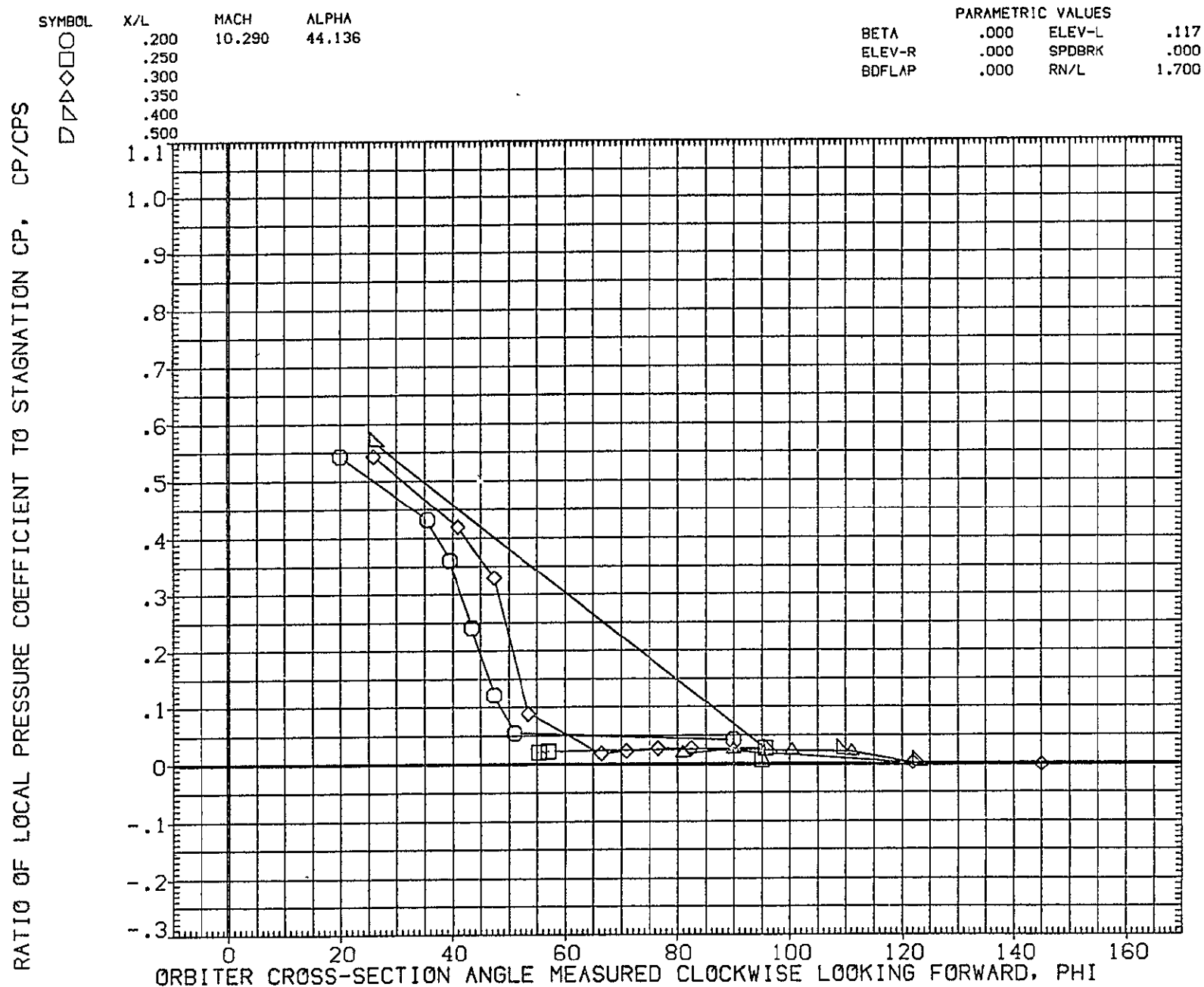


FIG. 12 FUSELAGE CROSS SECTIONS

SYMBOL  
○  
□  
◇  
△  
▽

X/L MACH ALPHA  
.600 10.290 44.136  
.800  
.829  
.900  
.950

PARAMETRIC VALUES  
BETA .000 ELEV-L .117  
ELEV-R .000 SPDBRK .000  
BOFLAP .000 RN/L 1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

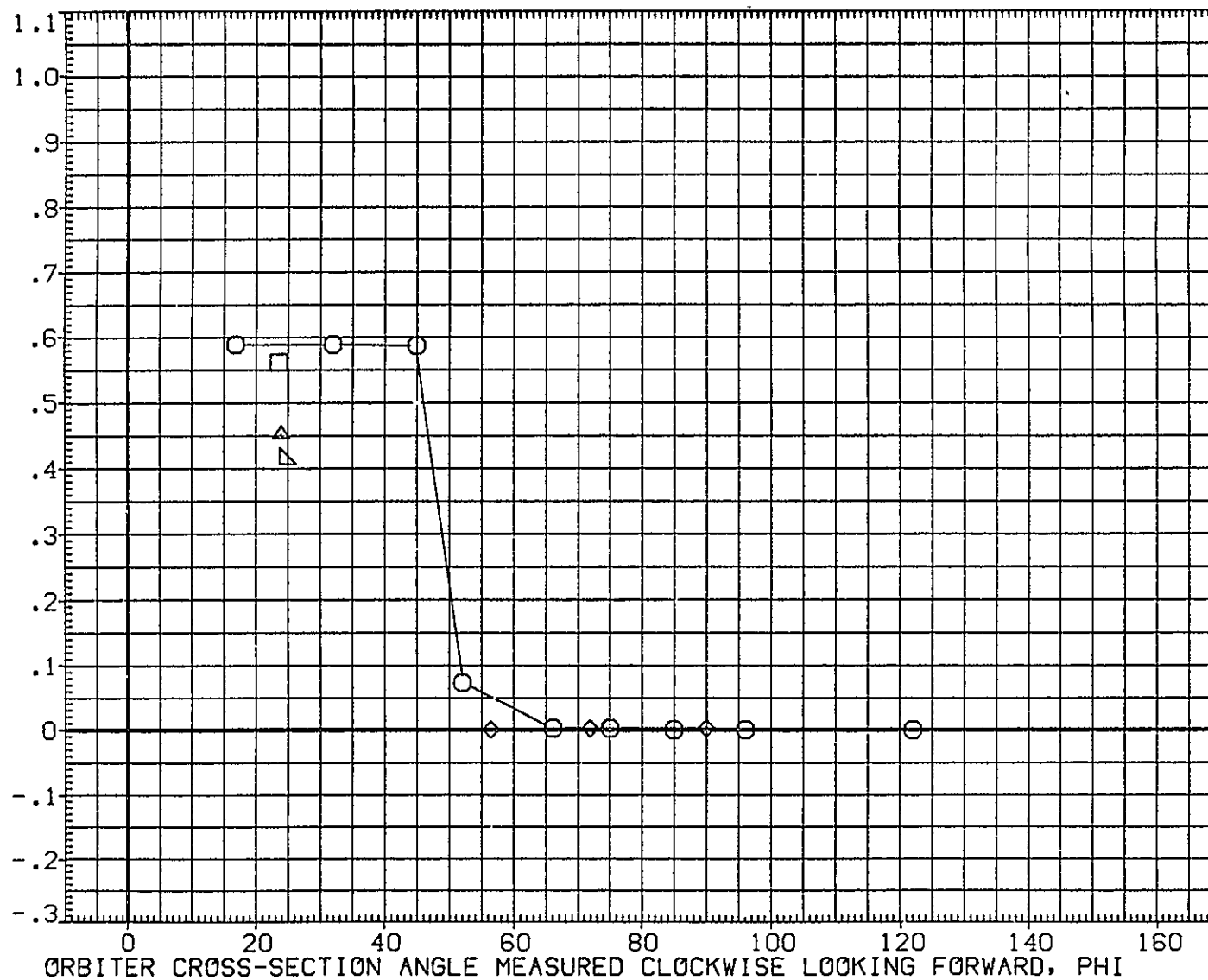


FIG. 12 FUSELAGE CROSS SECTIONS

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK01)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	19.942
□	340.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-R .000
SPDBRK	41.533	BDFLAP 15.667
RN/L	3.000	

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

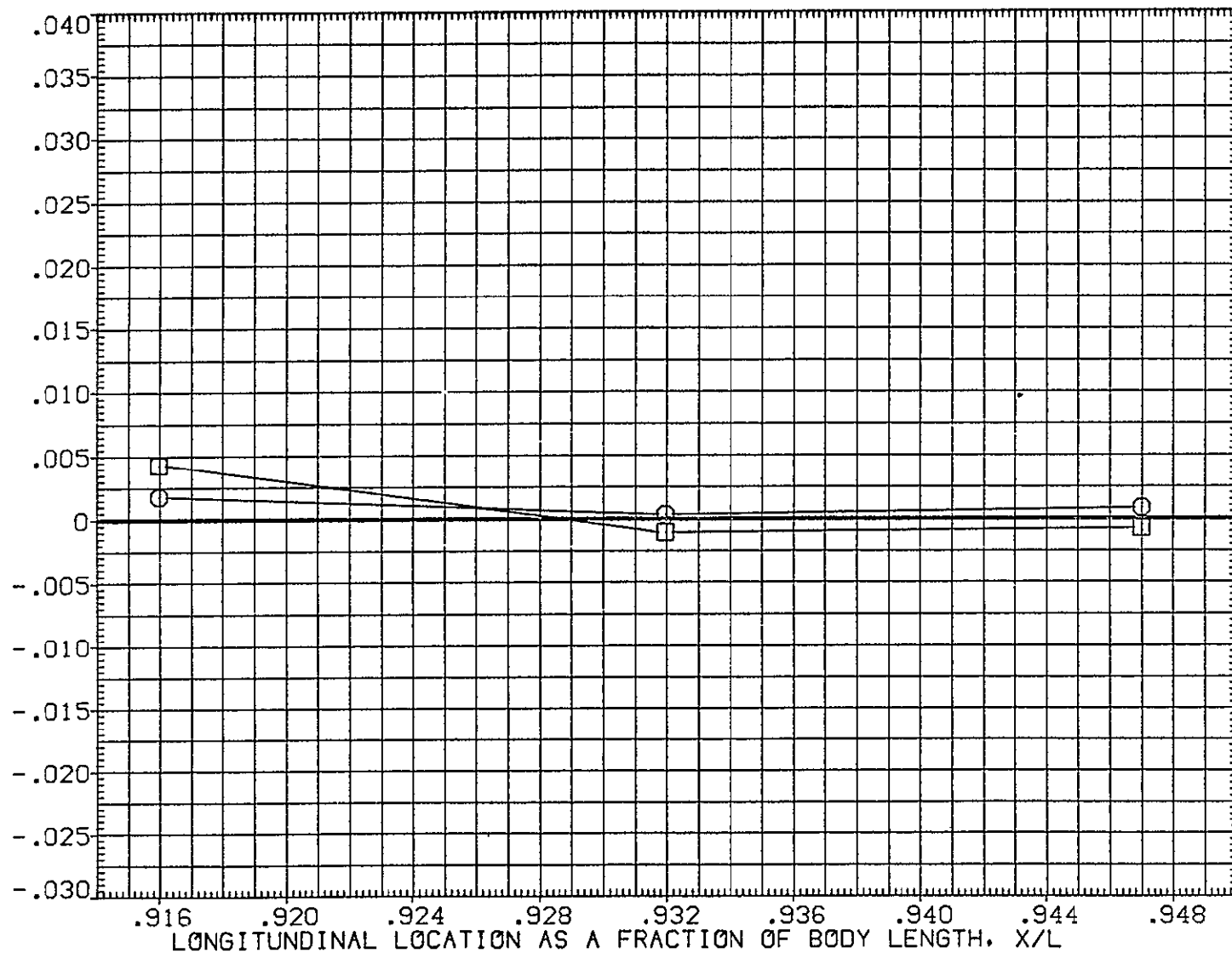


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	24.886
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-R	.000
SPDBRK	41.533	BDFLAP	15.667
RN/L	3.000		

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

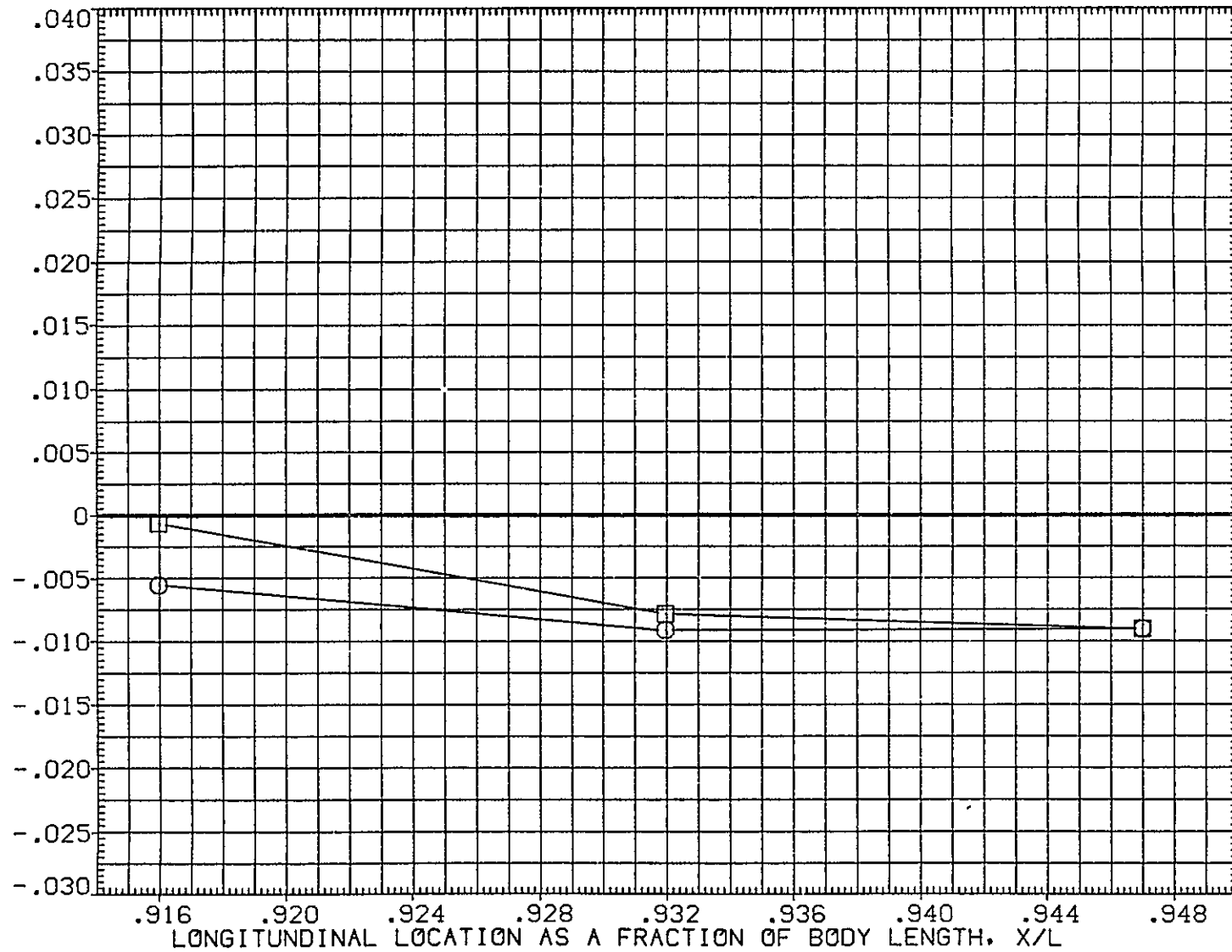


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK01)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.899
□	340.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-R .000
SPDBRK	41.533	BDFLAP 15.667
RN/L	3.000	

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

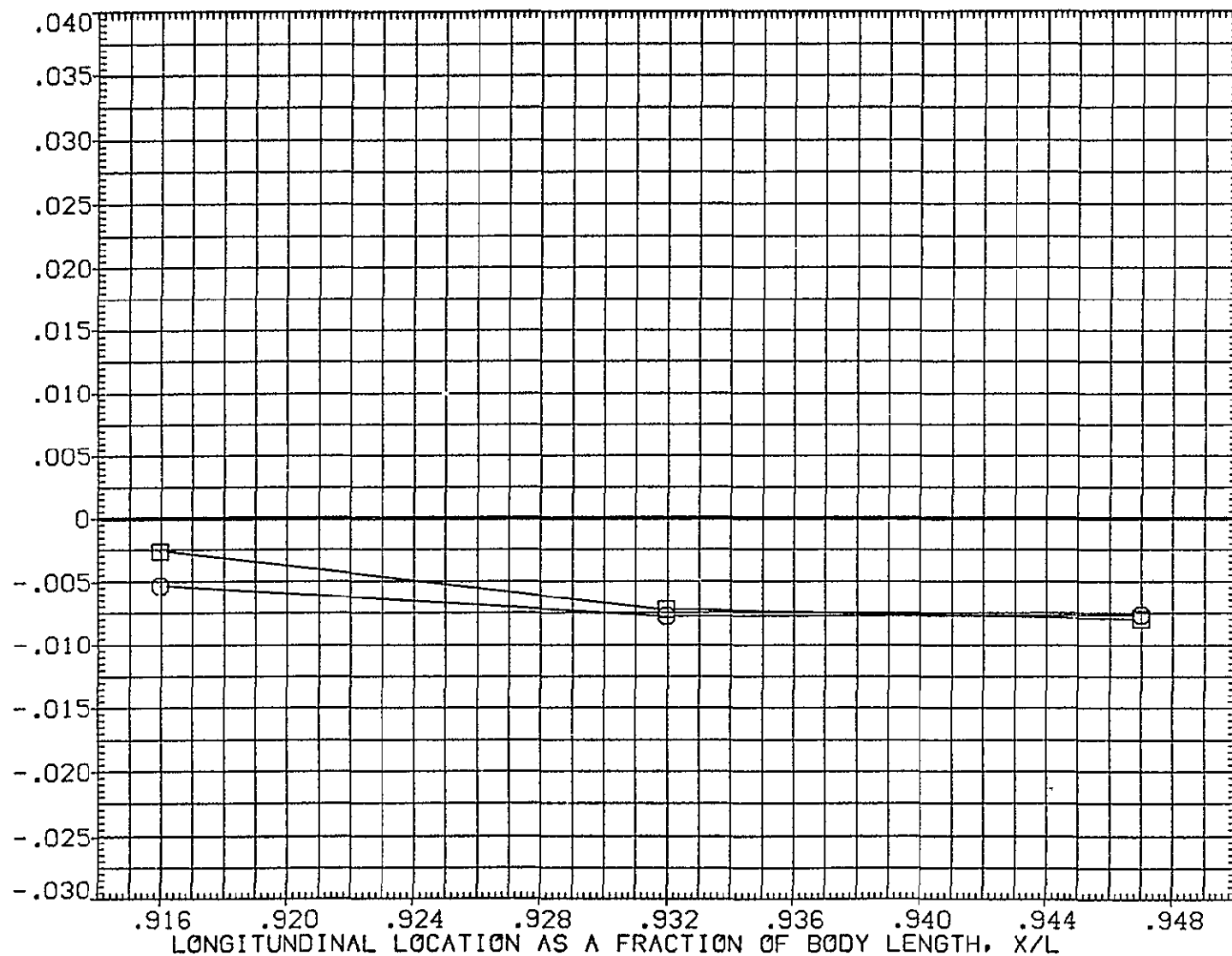


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	34.843
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-R	.000
SPDBRK	41.533	BDFLAP	15.667
RN/L	3.000		

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

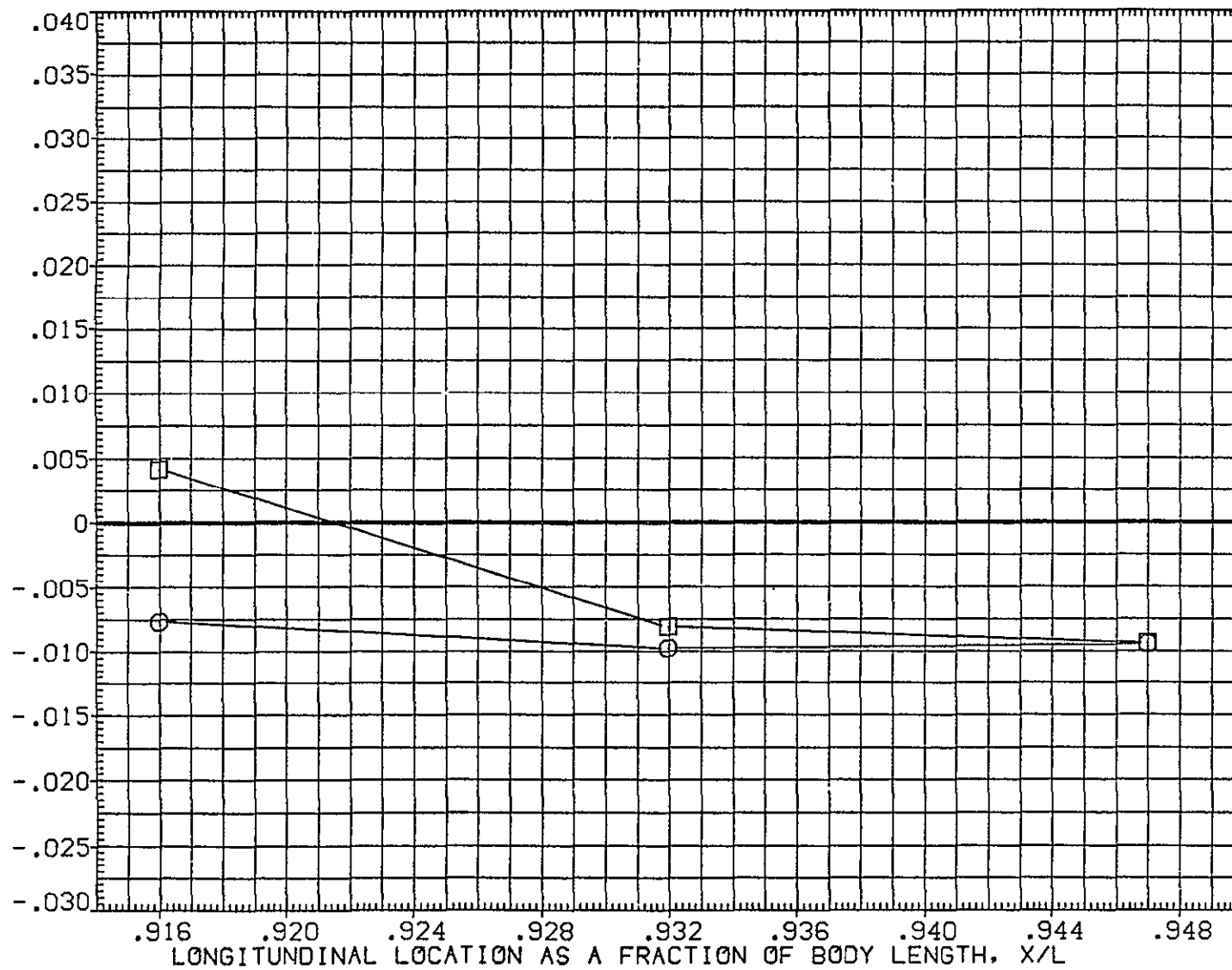


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK01)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	40.034
□	340.000		

PARAMETRIC VALUES		
BETA	.000	ELEV-R .000
SPDBRK	41.533	BDFLAP 15.667
RN/L	3.000	

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

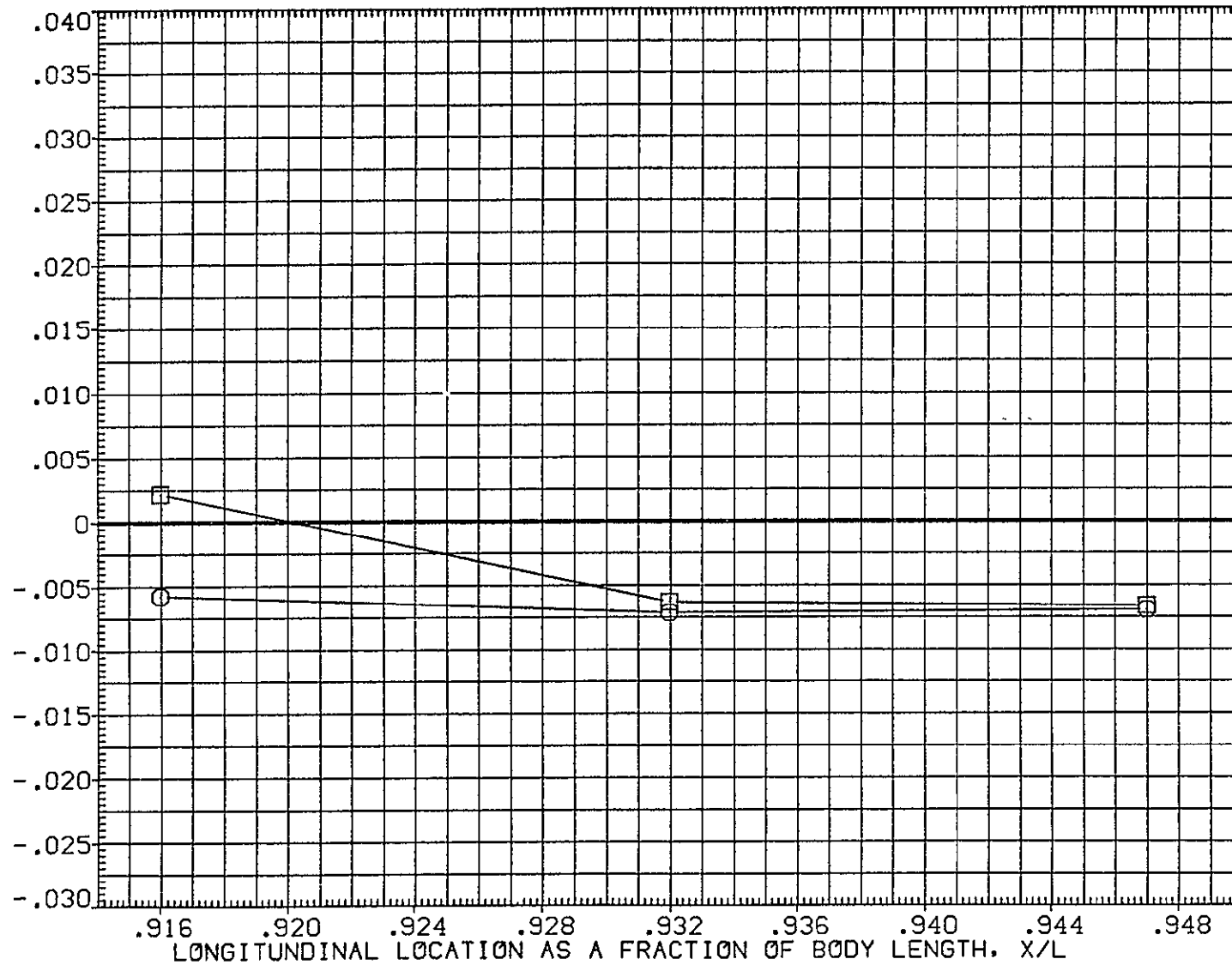


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	44.132
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-R	.000
SPDBRK	41.533	BDFLAP	15.667
RN/L	3.000		

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS



FIG. 13 AFT SIDEWALL



ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK03)

SYMBOL  
○  
□

Z0  
310.000  
340.000

MACH  
7.320

ALPHA  
19.289

PARAMETRIC VALUES

BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

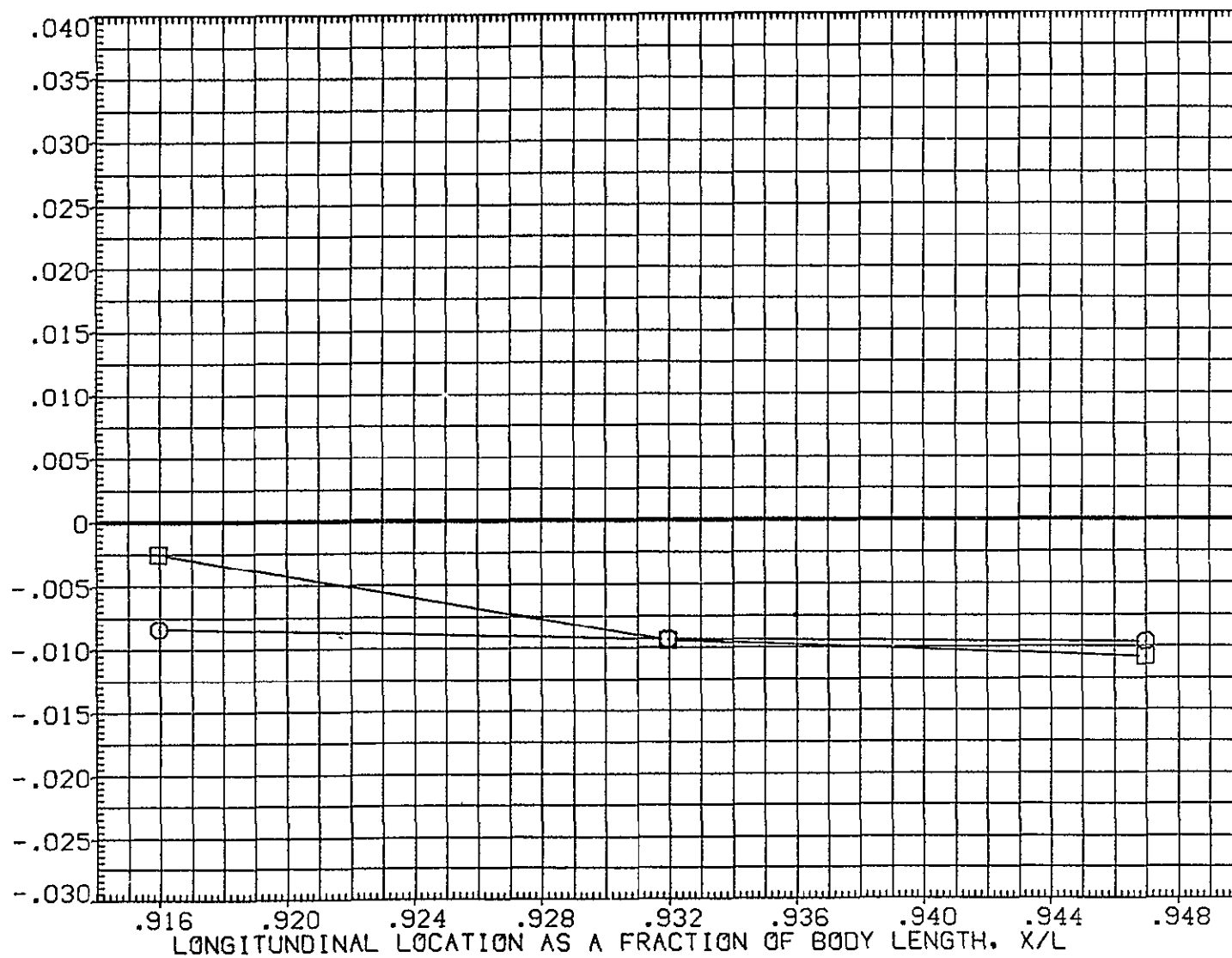


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	24.885
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

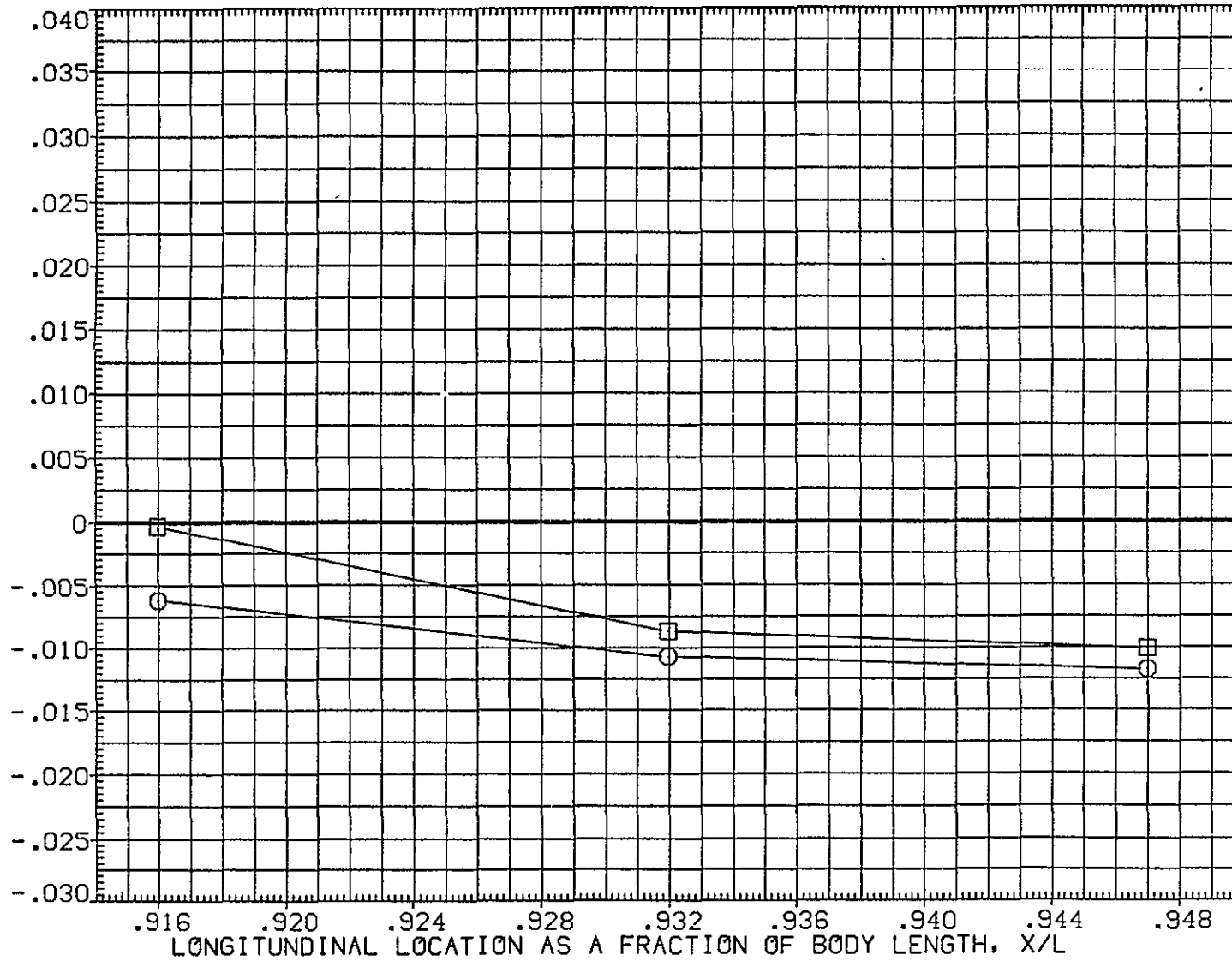


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZKO3)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.811
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

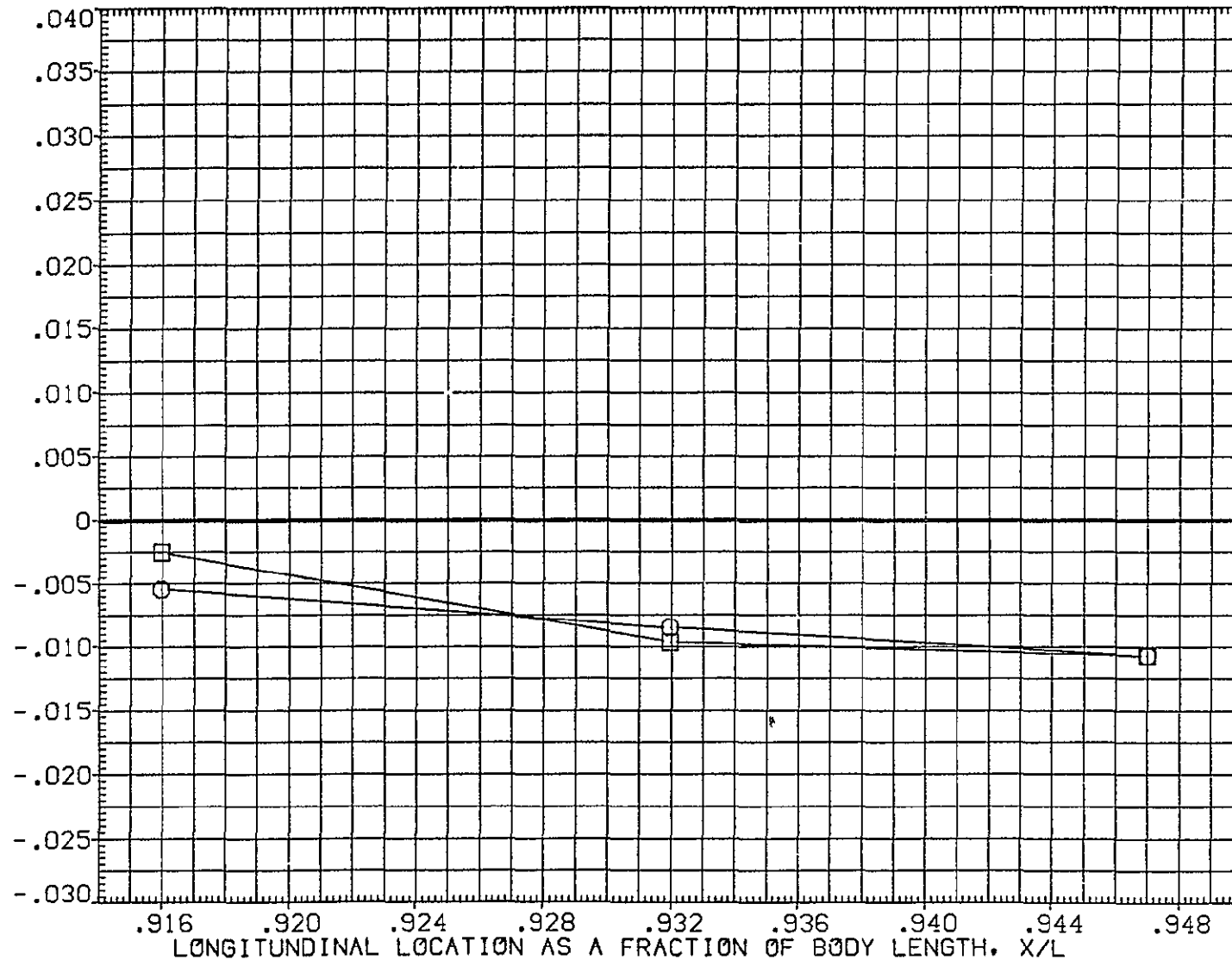


FIG. 13 AFT SIDEWALL

SYMBOL	ZD	MACH	ALPHA
○	310.000	7.320	34.784
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

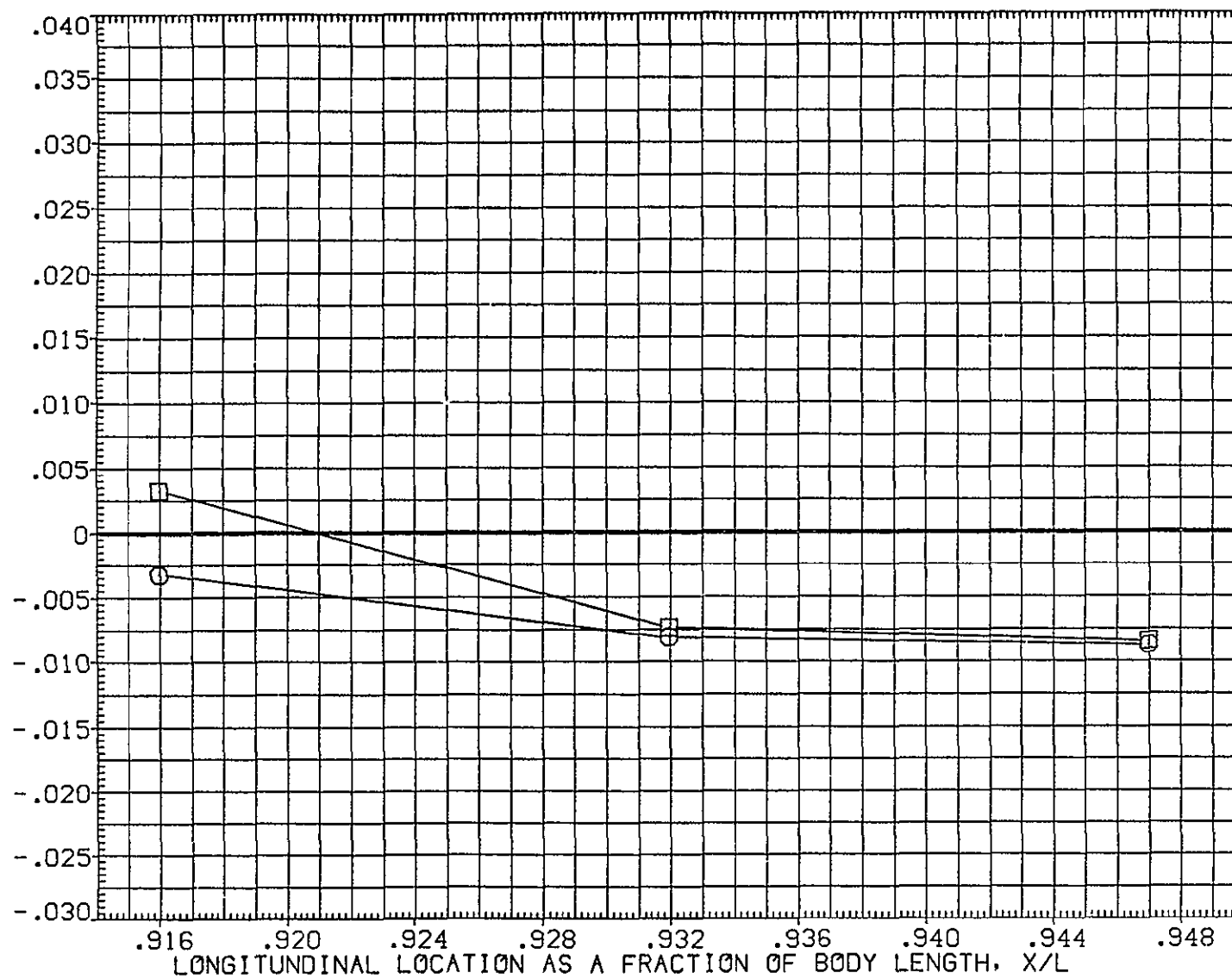


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK03)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	39.947
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

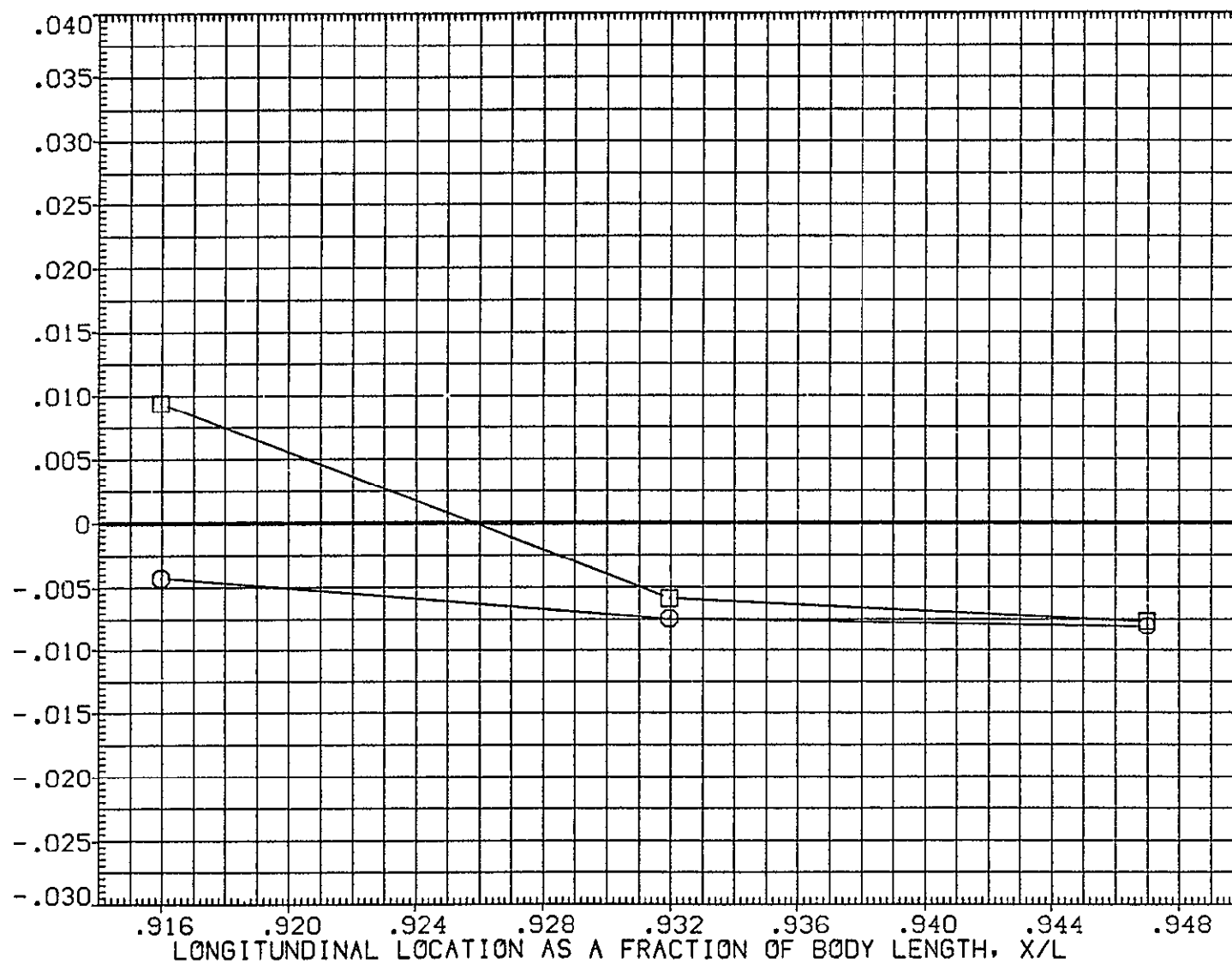


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	44.174
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

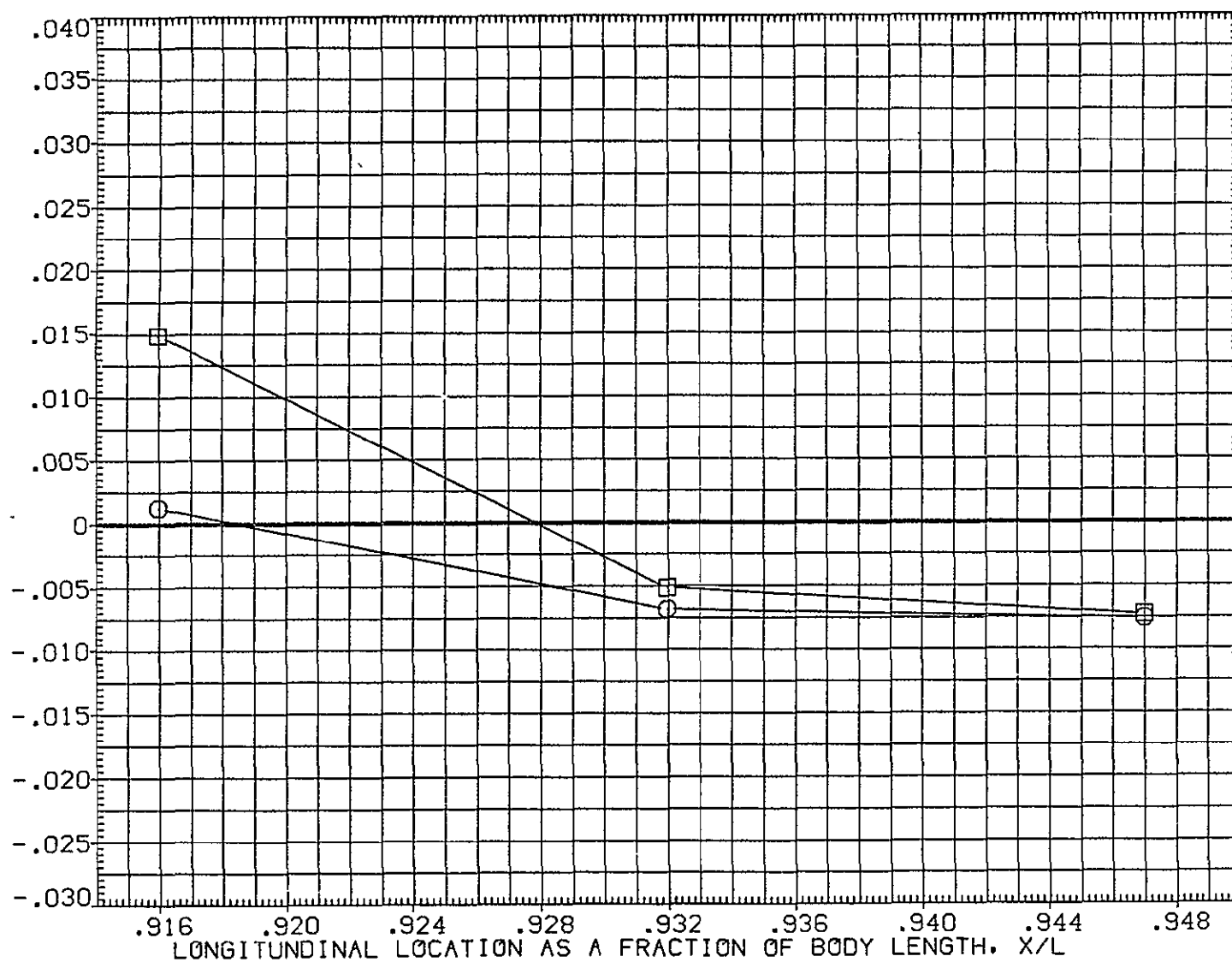


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK03)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	48.803
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

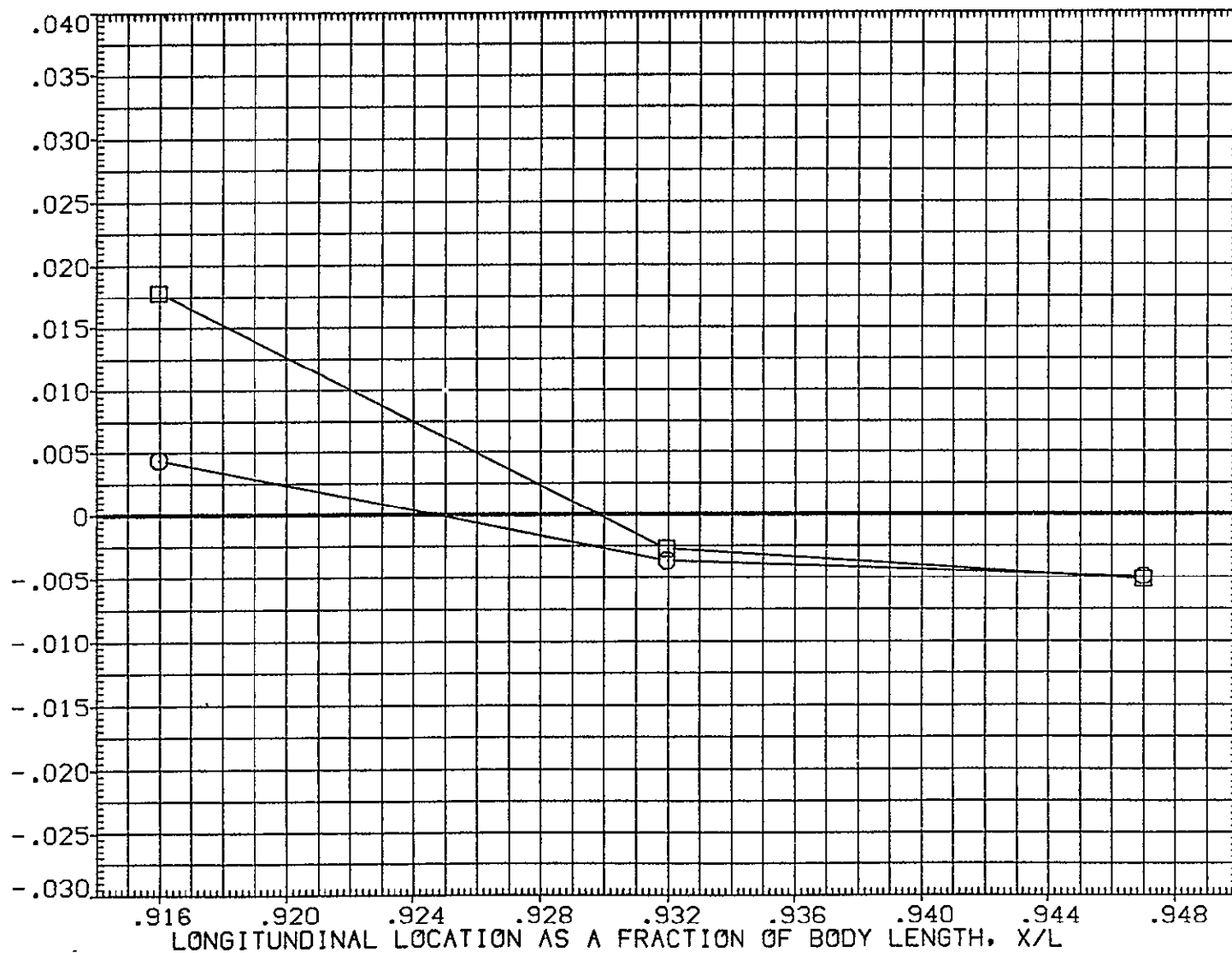


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	19.776
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

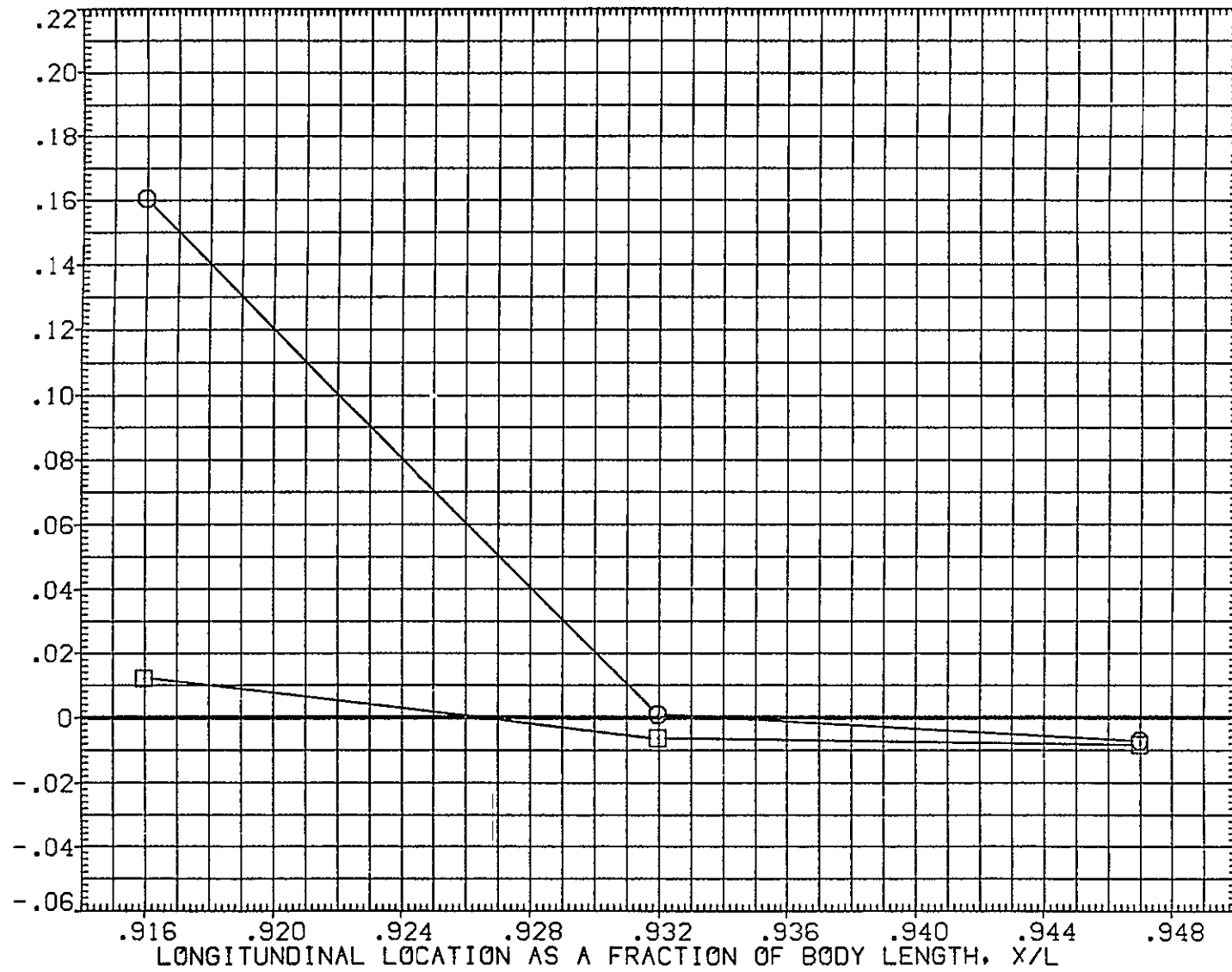


FIG. 13 AFT SIDEWALL



SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	24.809
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

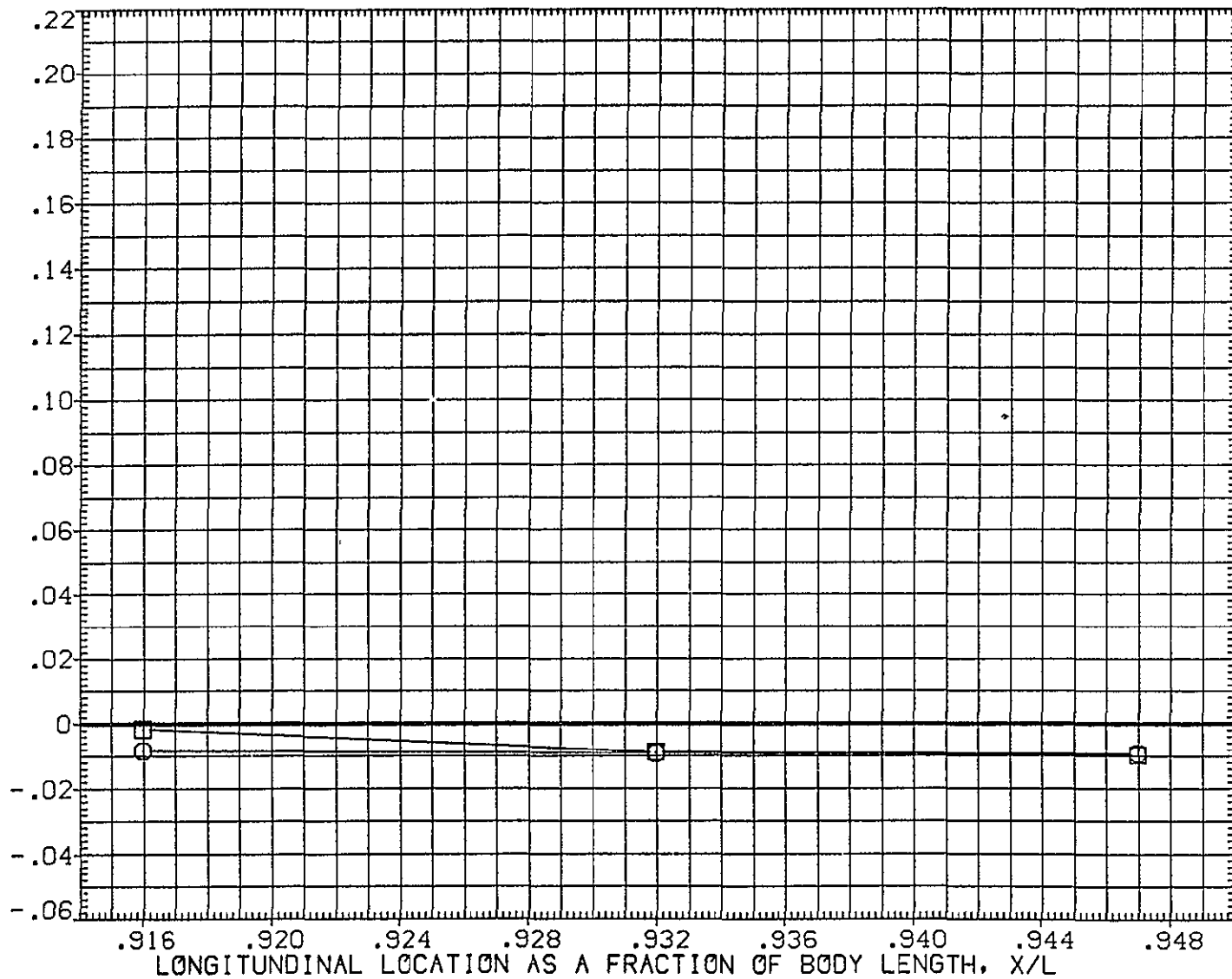


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.649
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

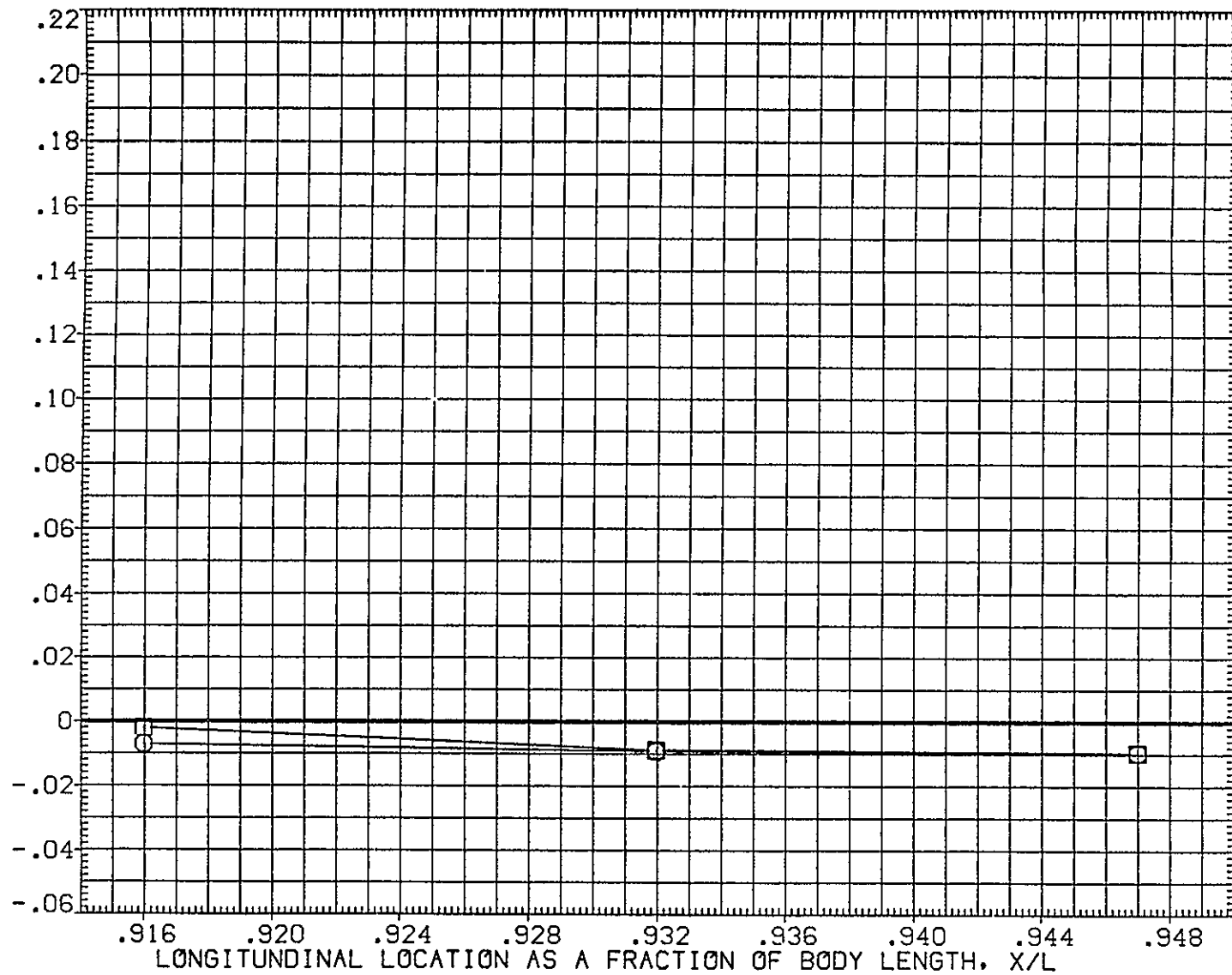


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(CEZK04)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	34.668
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

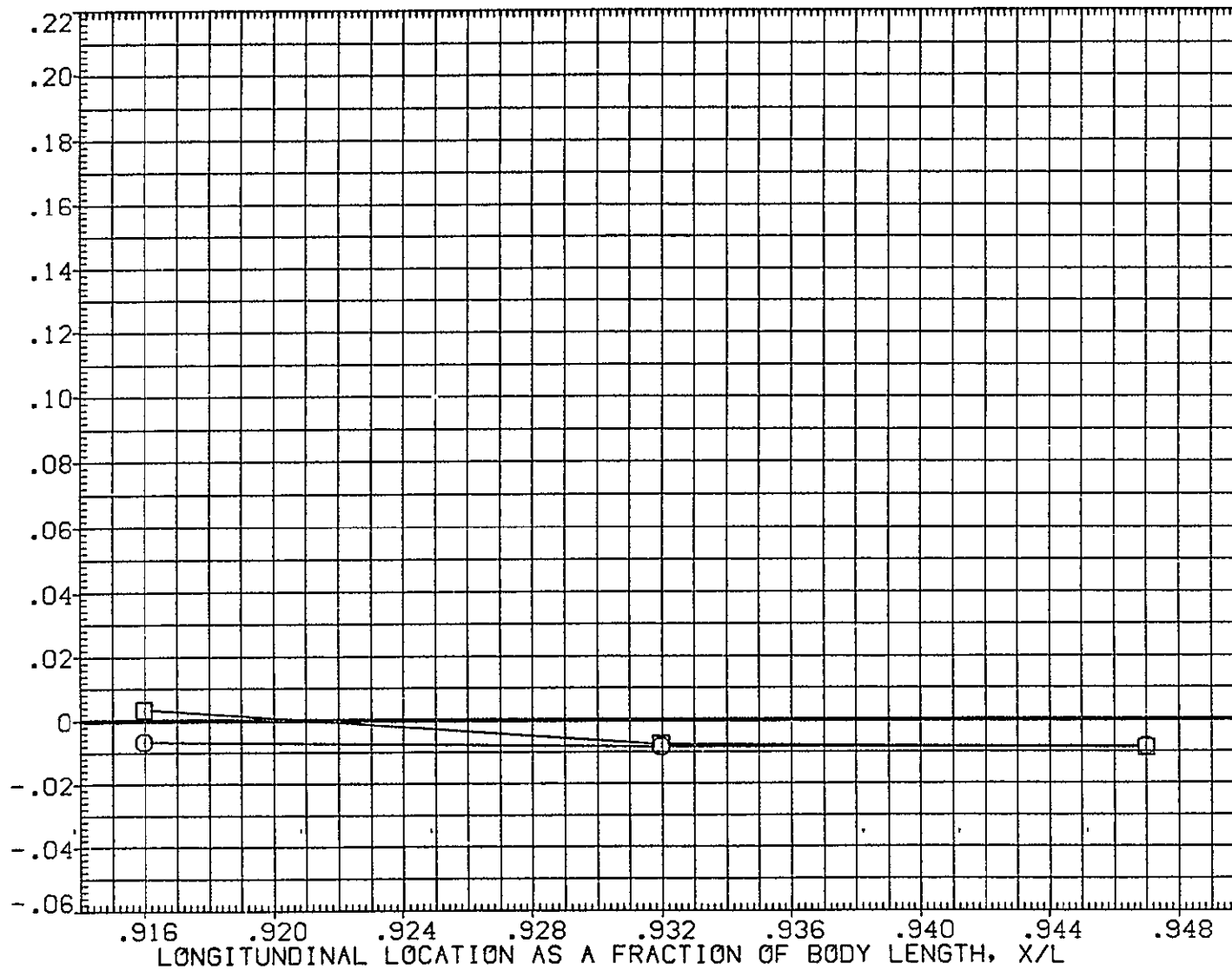


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	39.840
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

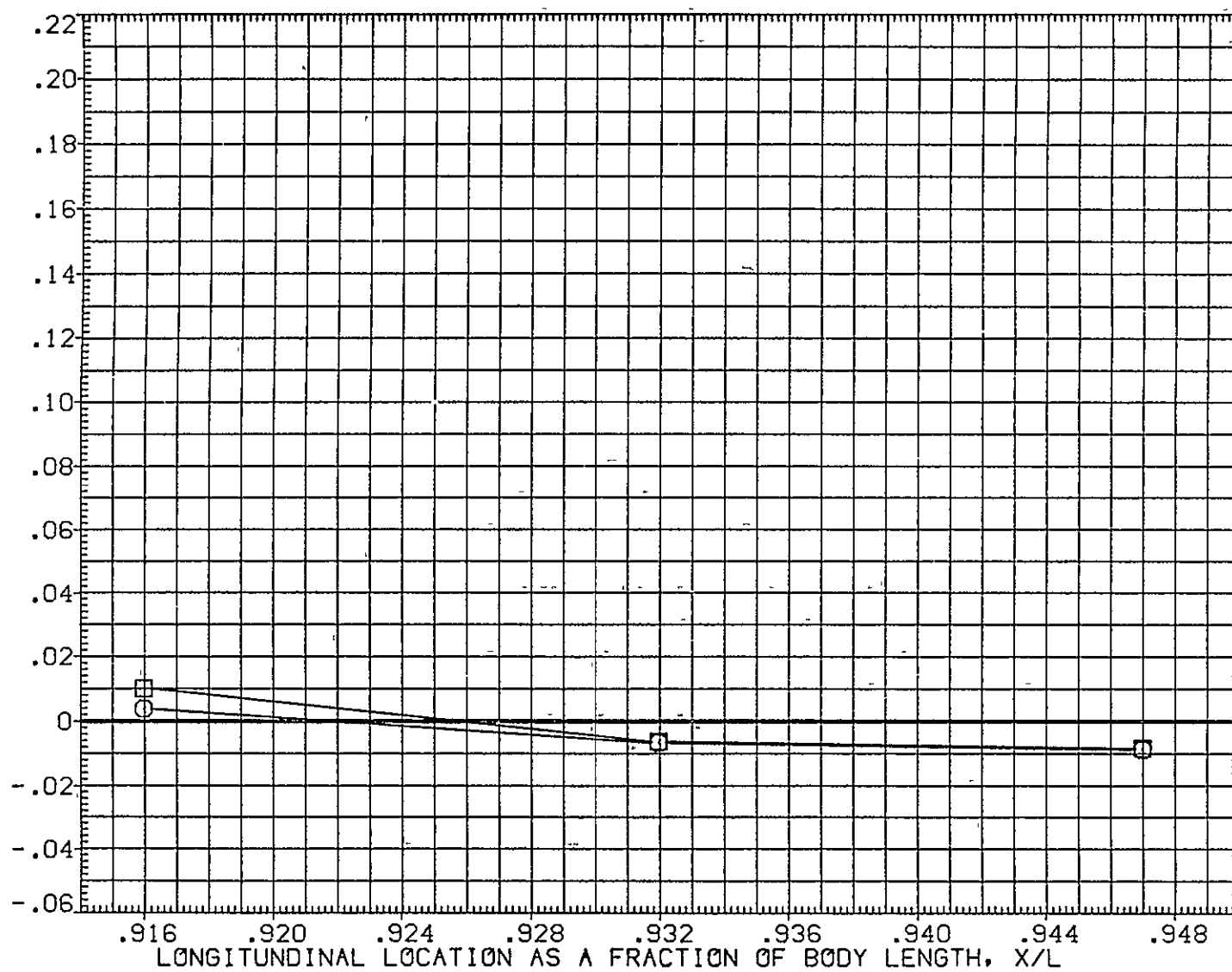


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	44.090
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	6.500

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

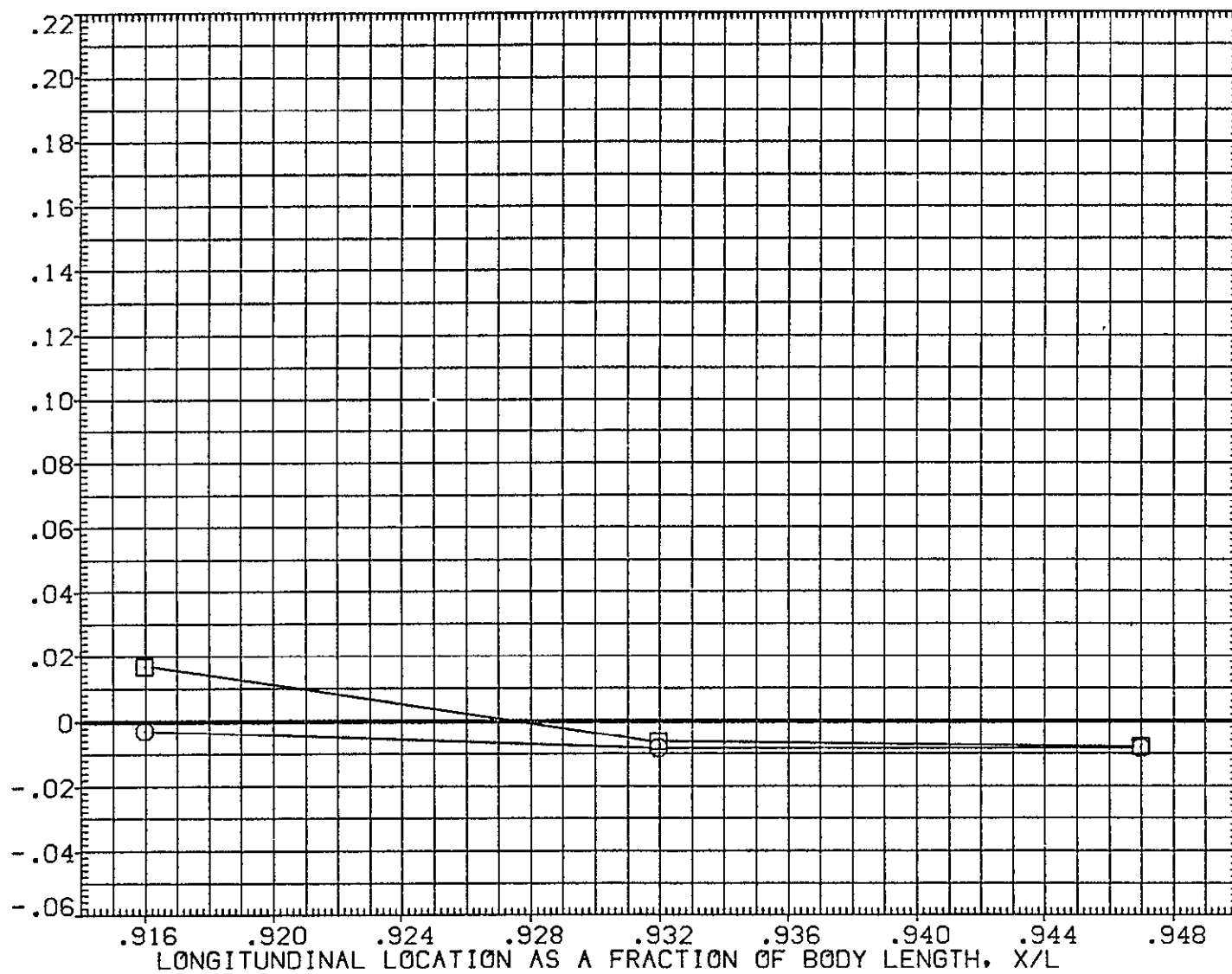


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	19.629
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS



FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.560
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPOBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

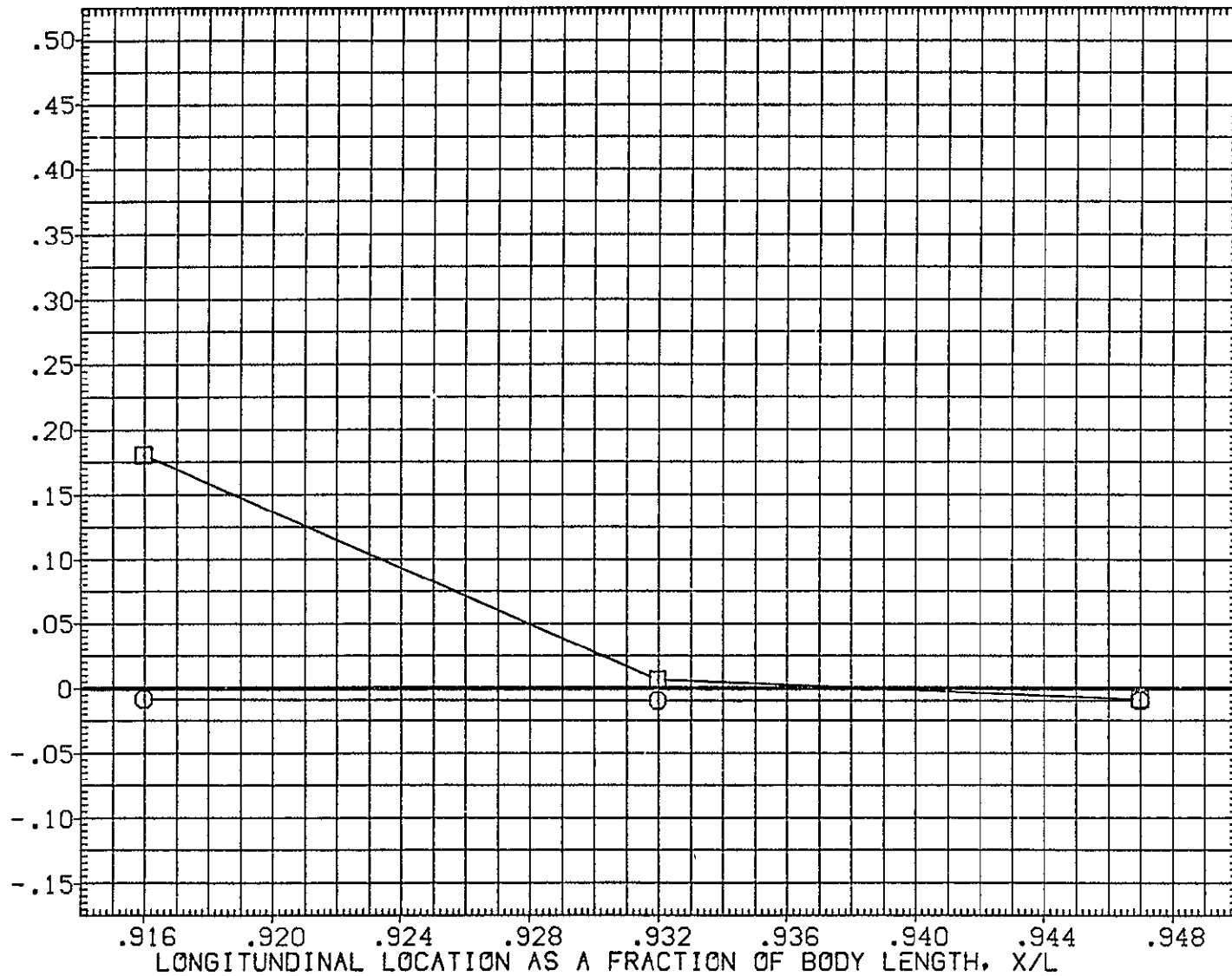


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	32.095
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

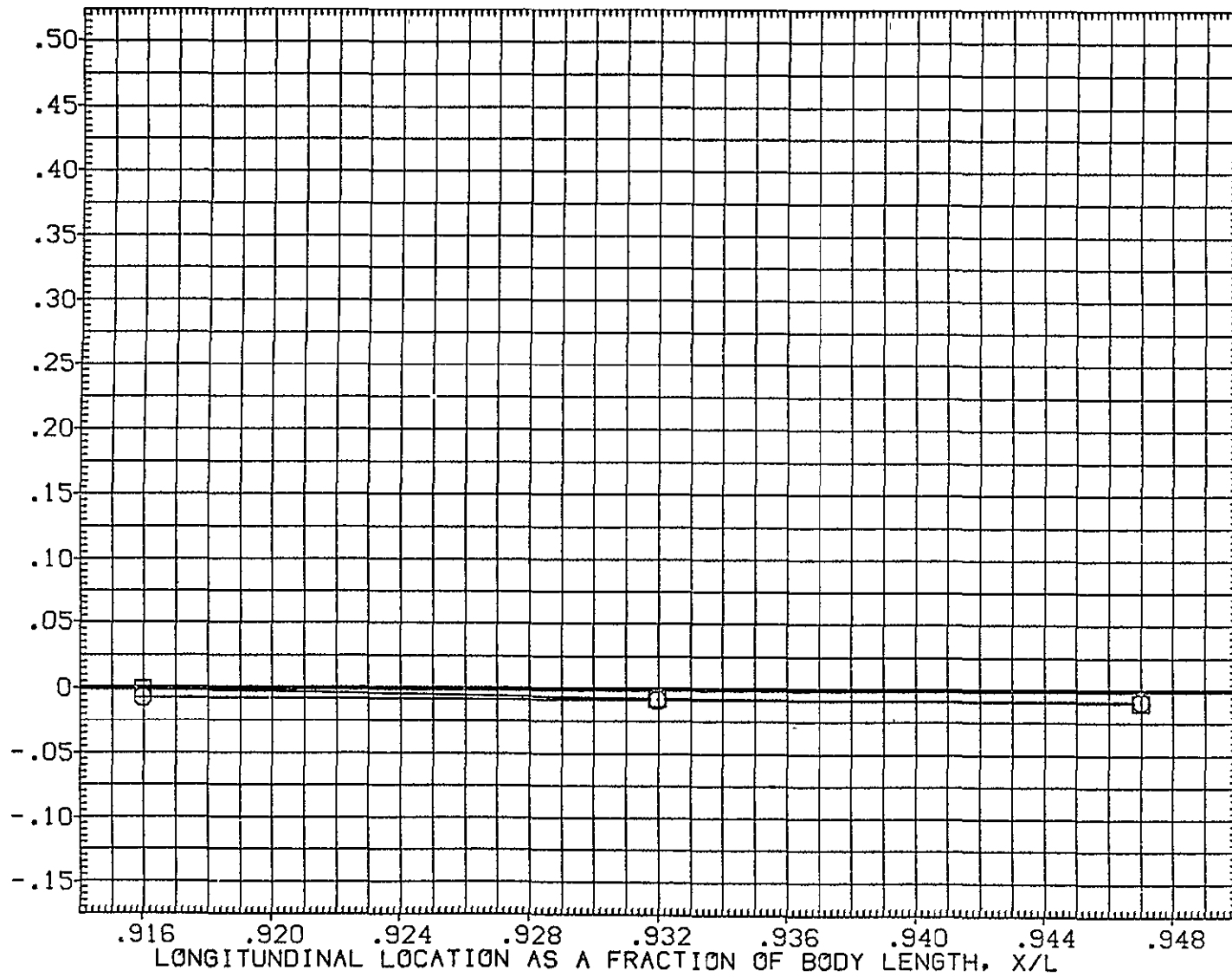


FIG. 13 AFT SIDEWALL



ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK05)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	39.911
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

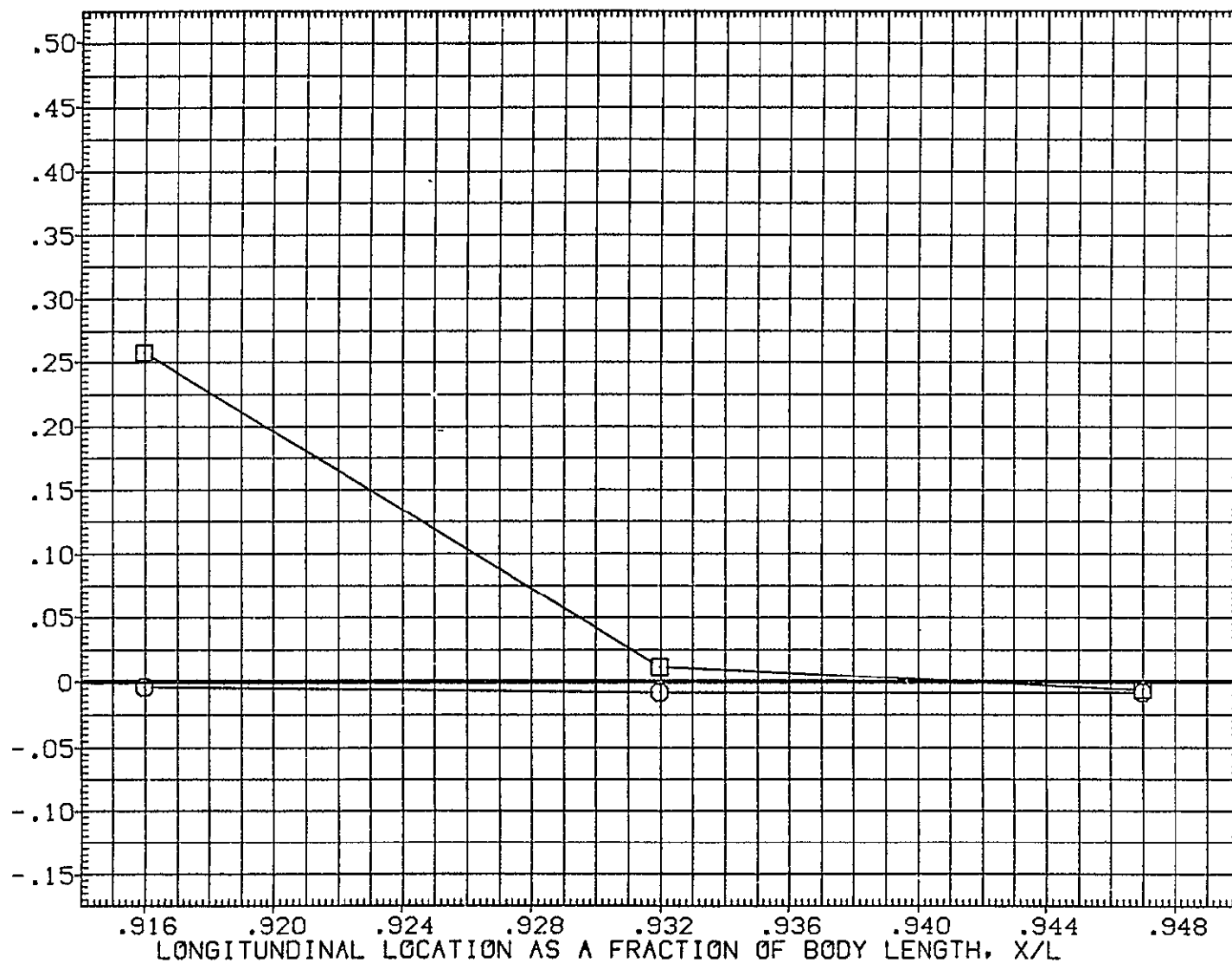


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	45.000
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

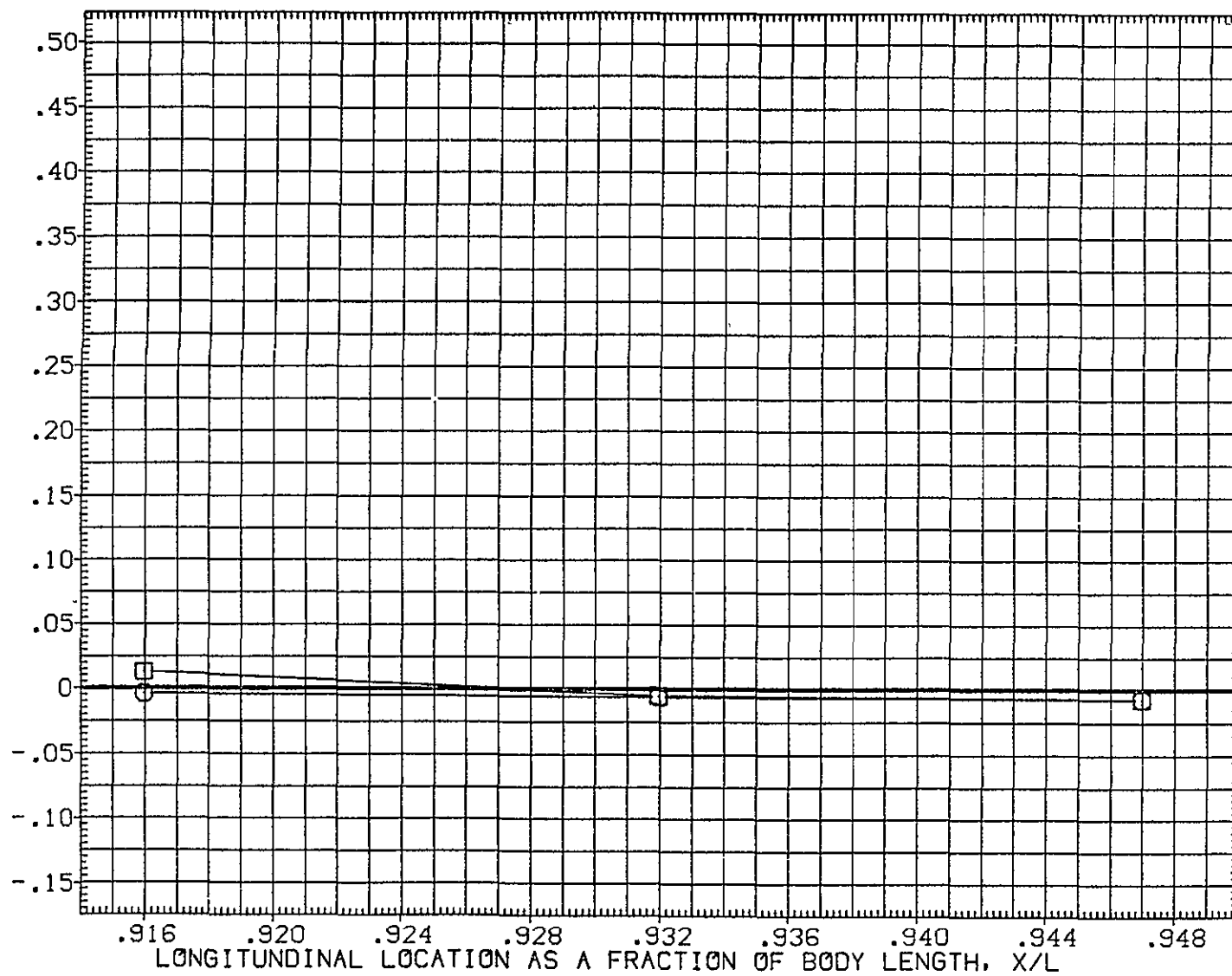


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	50.000
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

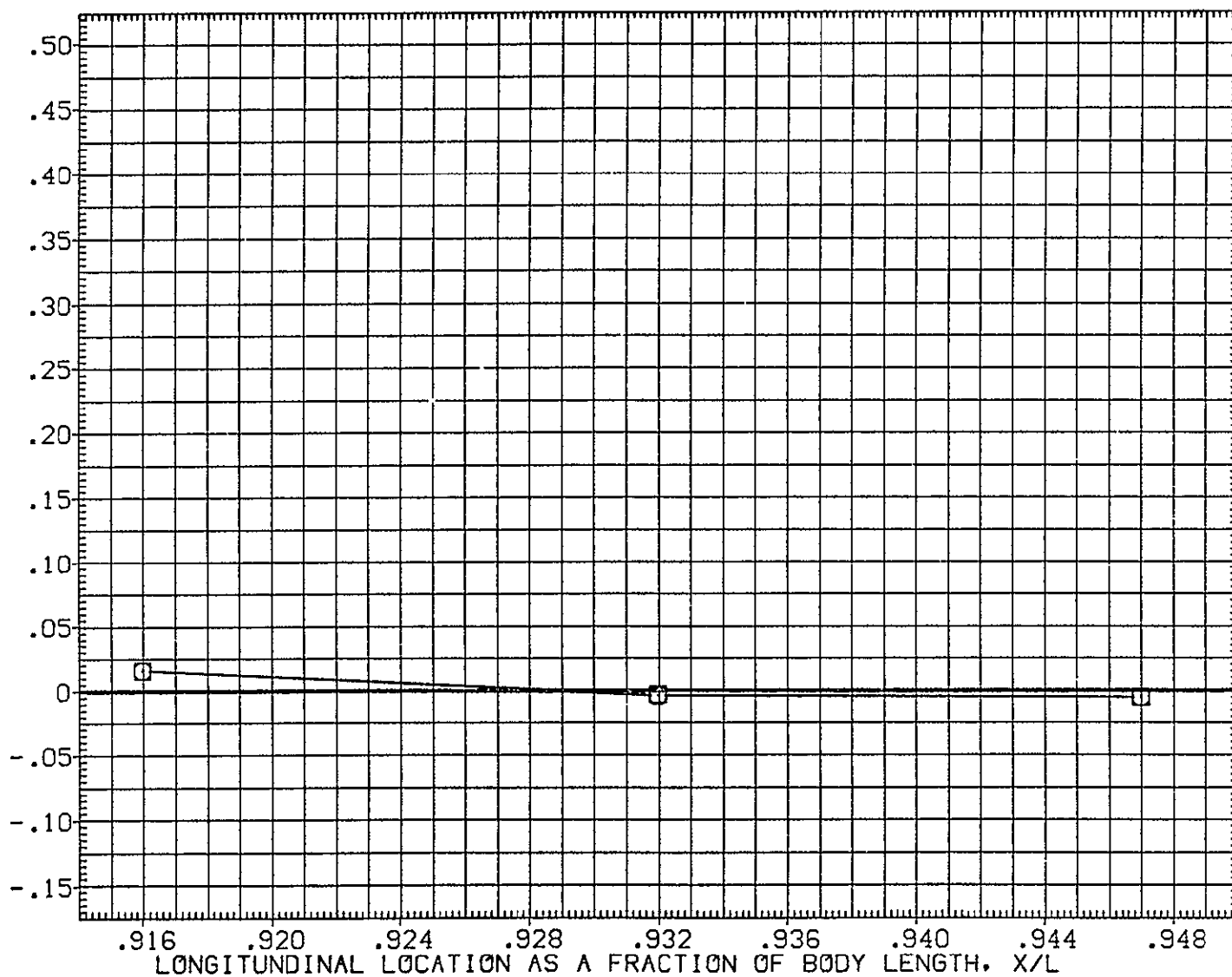


FIG. 13 AFT SIDEWALL

SYMBOL	ZØ	MACH	ALPHA
○	310.000	7.320	19.587
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPØBRK	.000
BØFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS



FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.758
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

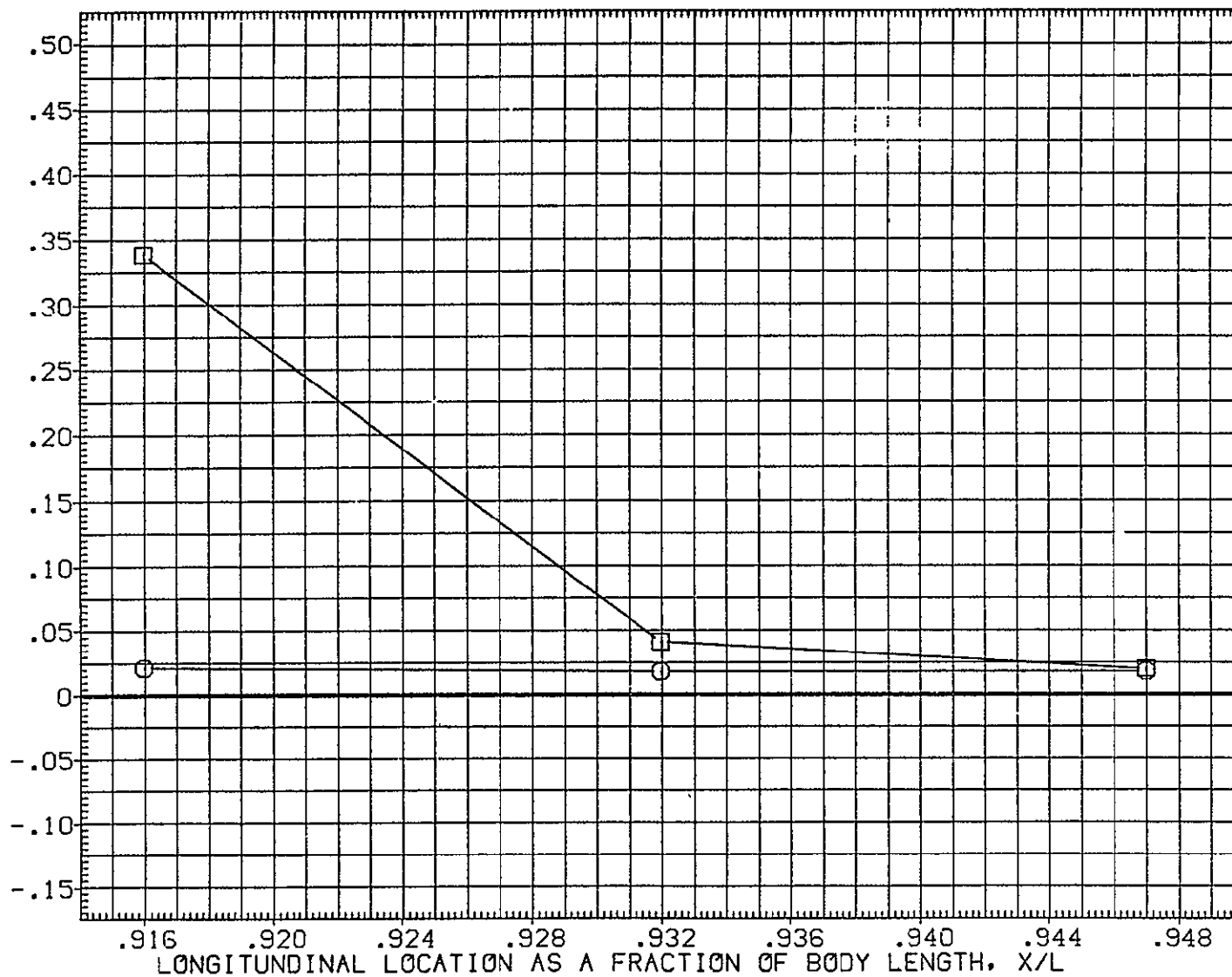


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	35.000
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

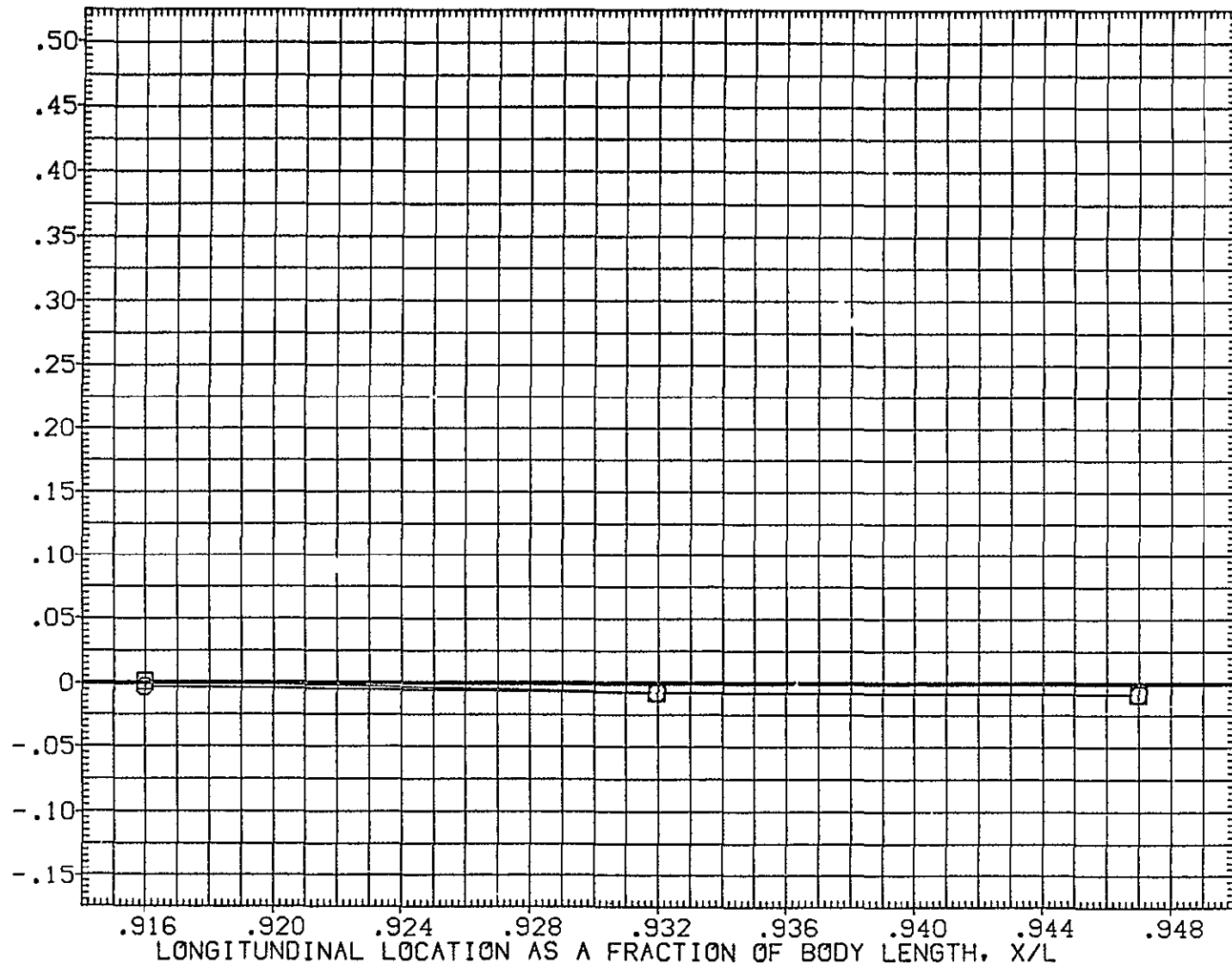


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZKU7)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	39.891
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	PN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS



FIG. 13 AFT SIDEWALL

REPRODUCIBILITY OF THE  
ORIGINAL, P. 1, 2

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	44.091
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

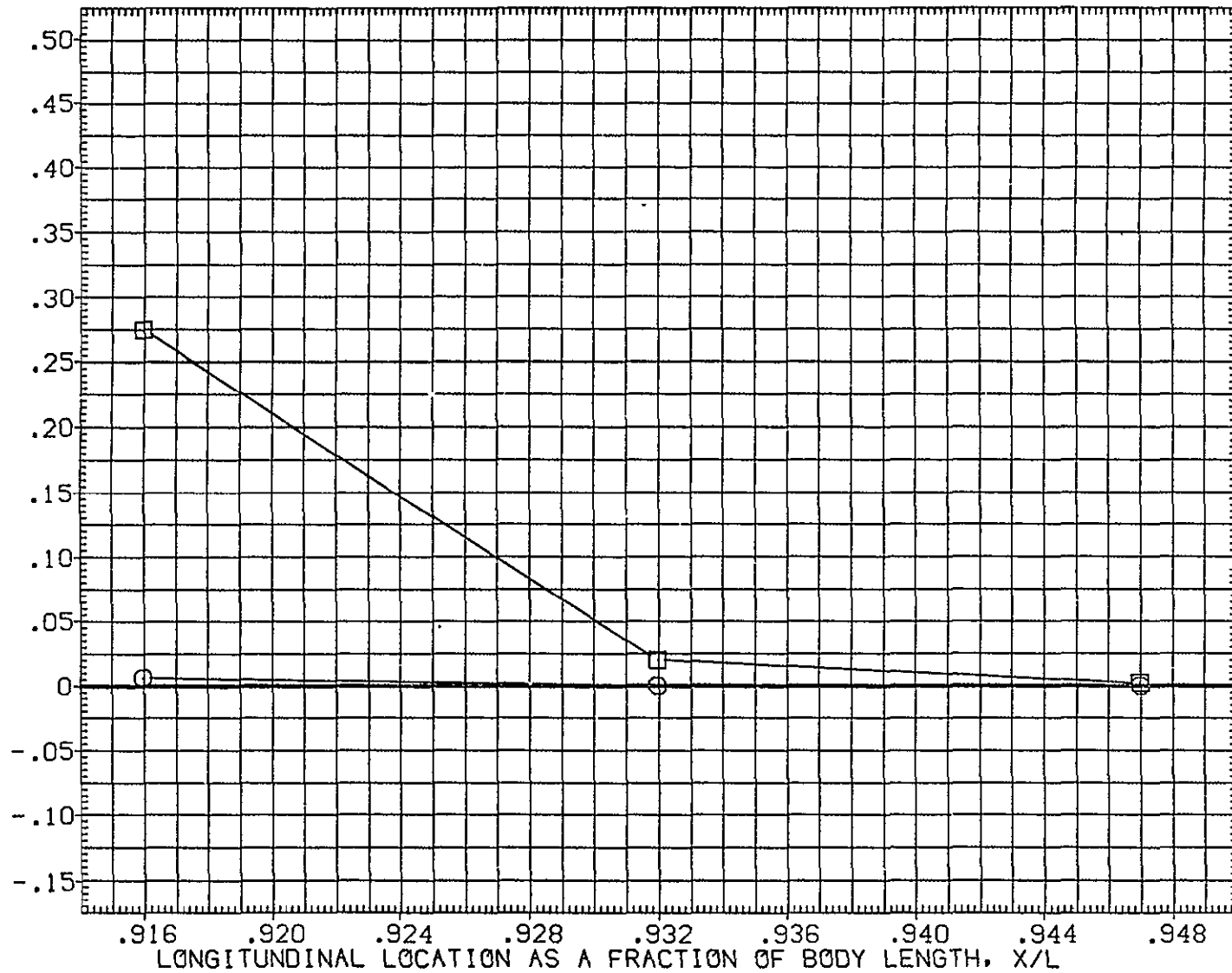


FIG. 13 AFT SIDEWALL



ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(PEZK07)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	48.692
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	5.050
ELEV-R	4.100	SPDBRK	.000
BDFLAP	15.667	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

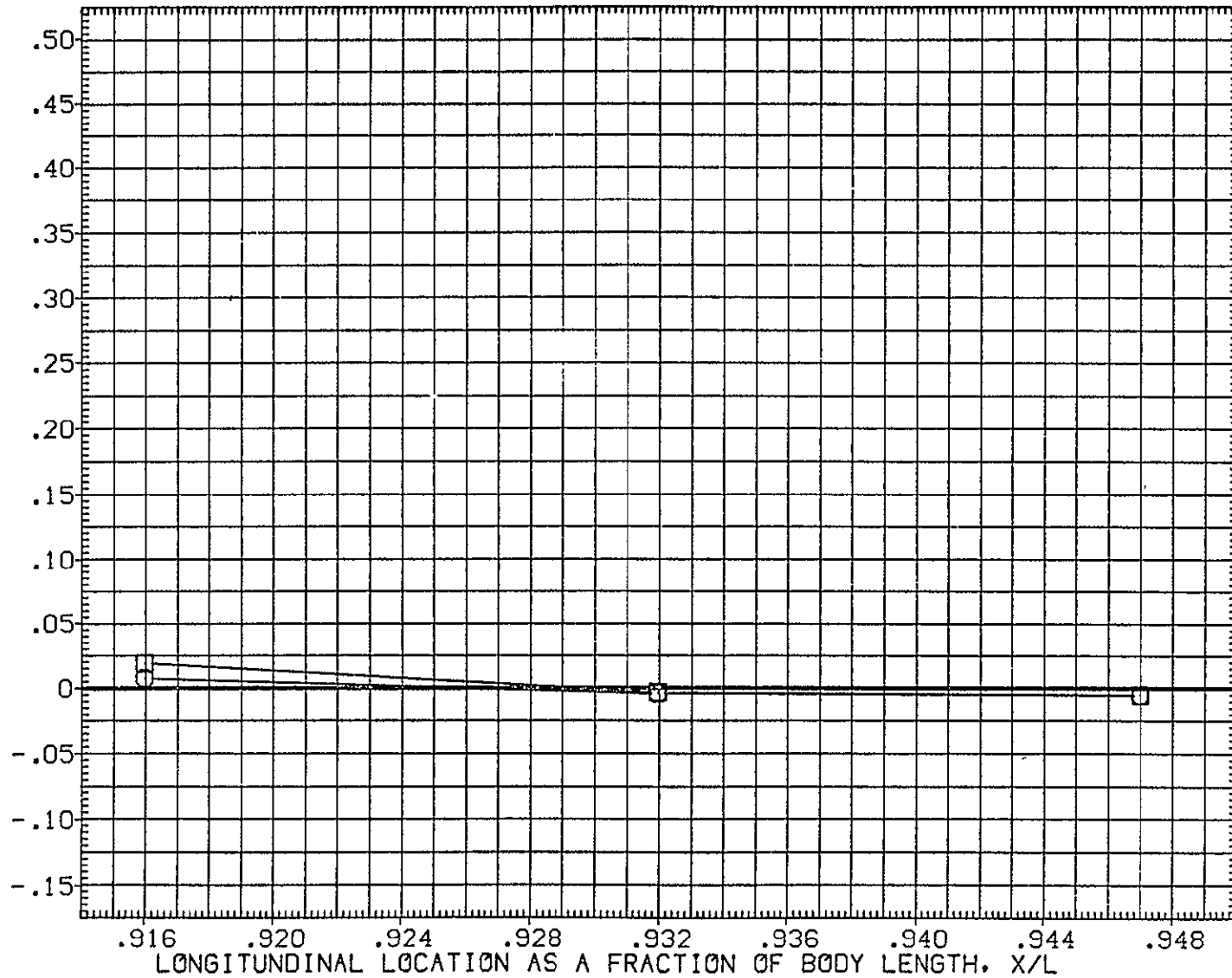


FIG. 13 AFT SIDEWALL

SYMBOL

Z0

MACH

ALPHA

PARAMETRIC VALUES

○  
□310.000  
340.000

7.320

15.000

BETA  
ELEV-R  
BDFLAP.000  
9.100  
.000ELEV-L  
SPDBRK  
RN/L10.000  
.000  
3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

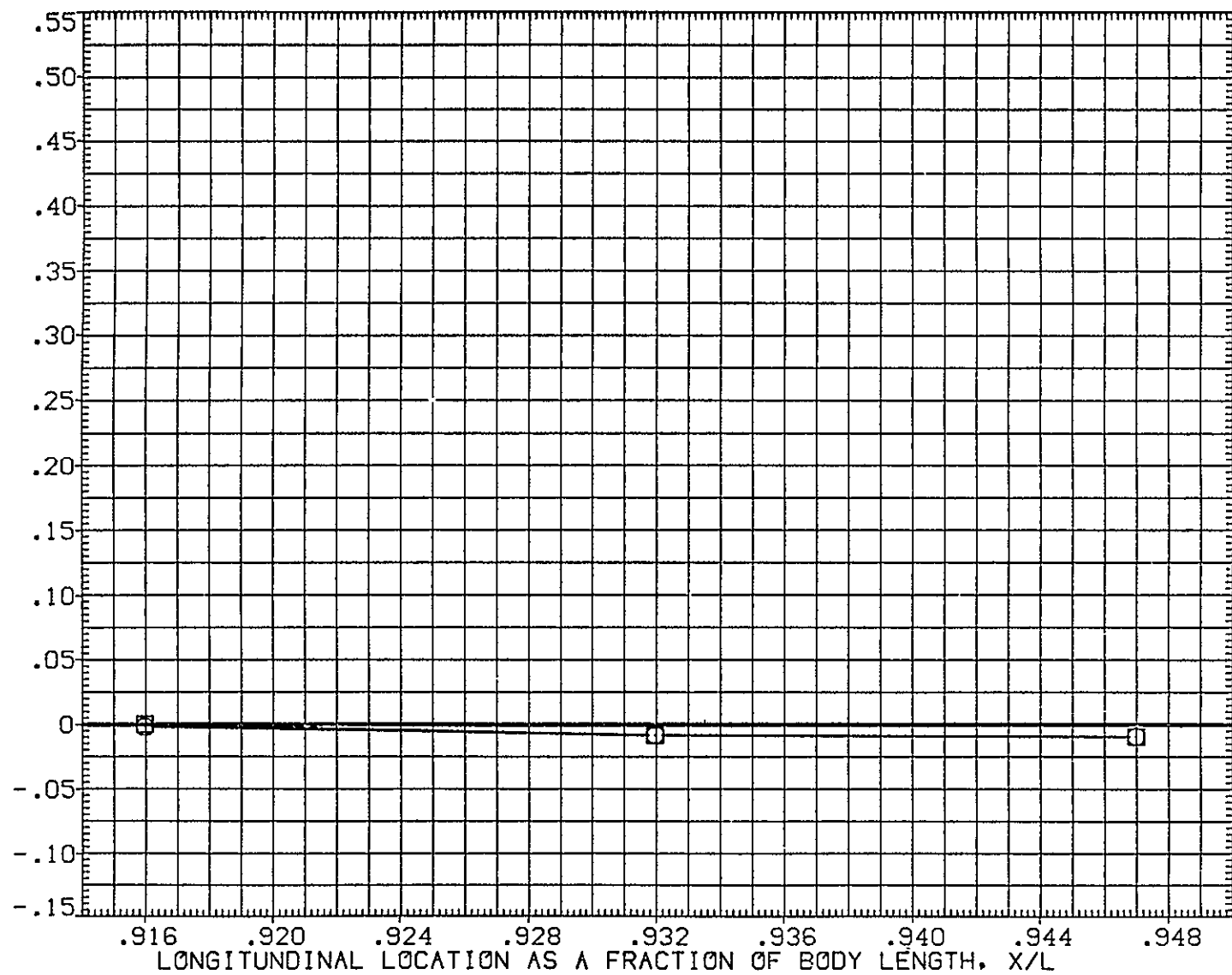


FIG. 13 AFT SIDEWALL

ARC 3.5-198 OH38 140C ORB AFT SIDEWALL

(CEZK11)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	19.441
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

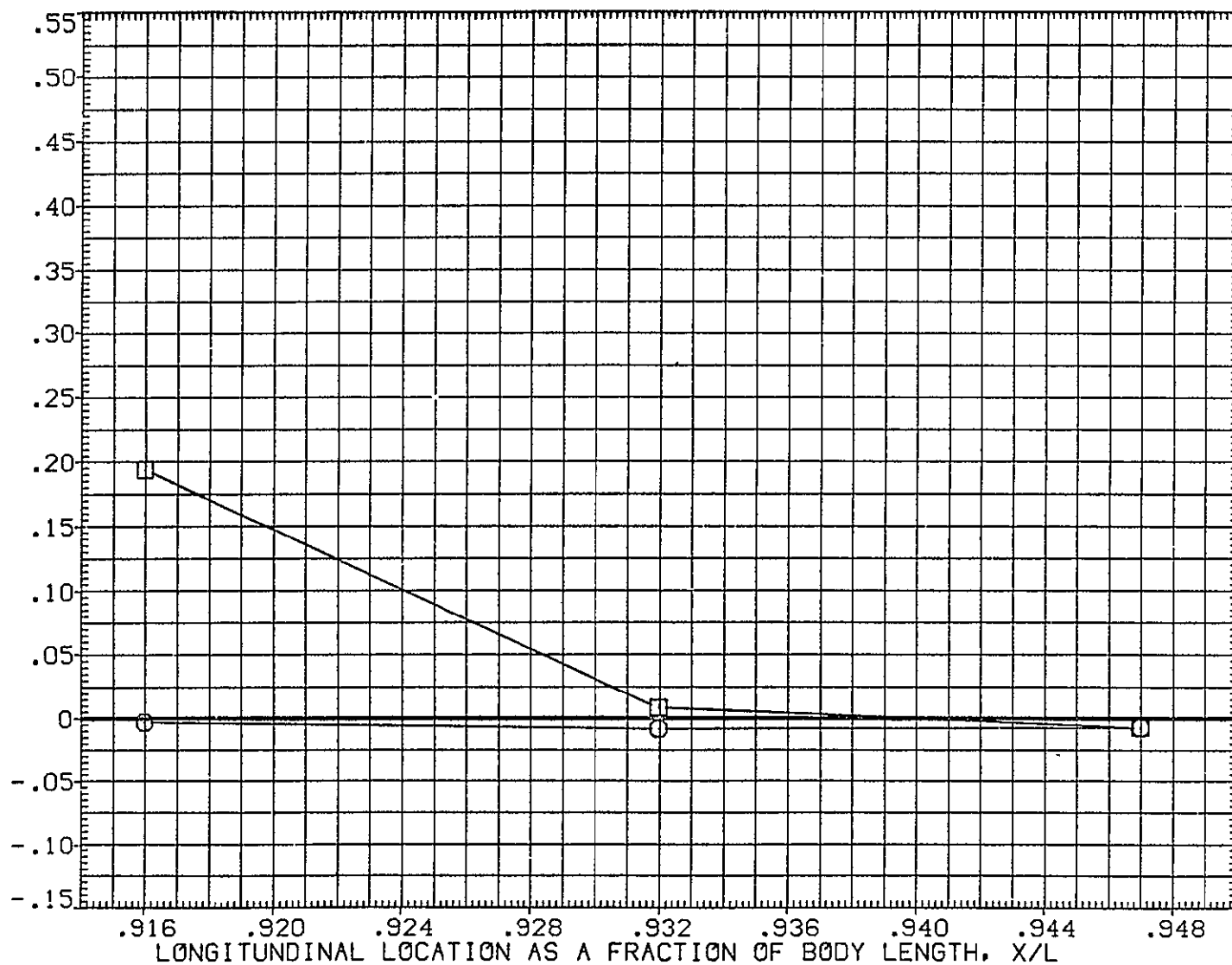


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	25.000
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

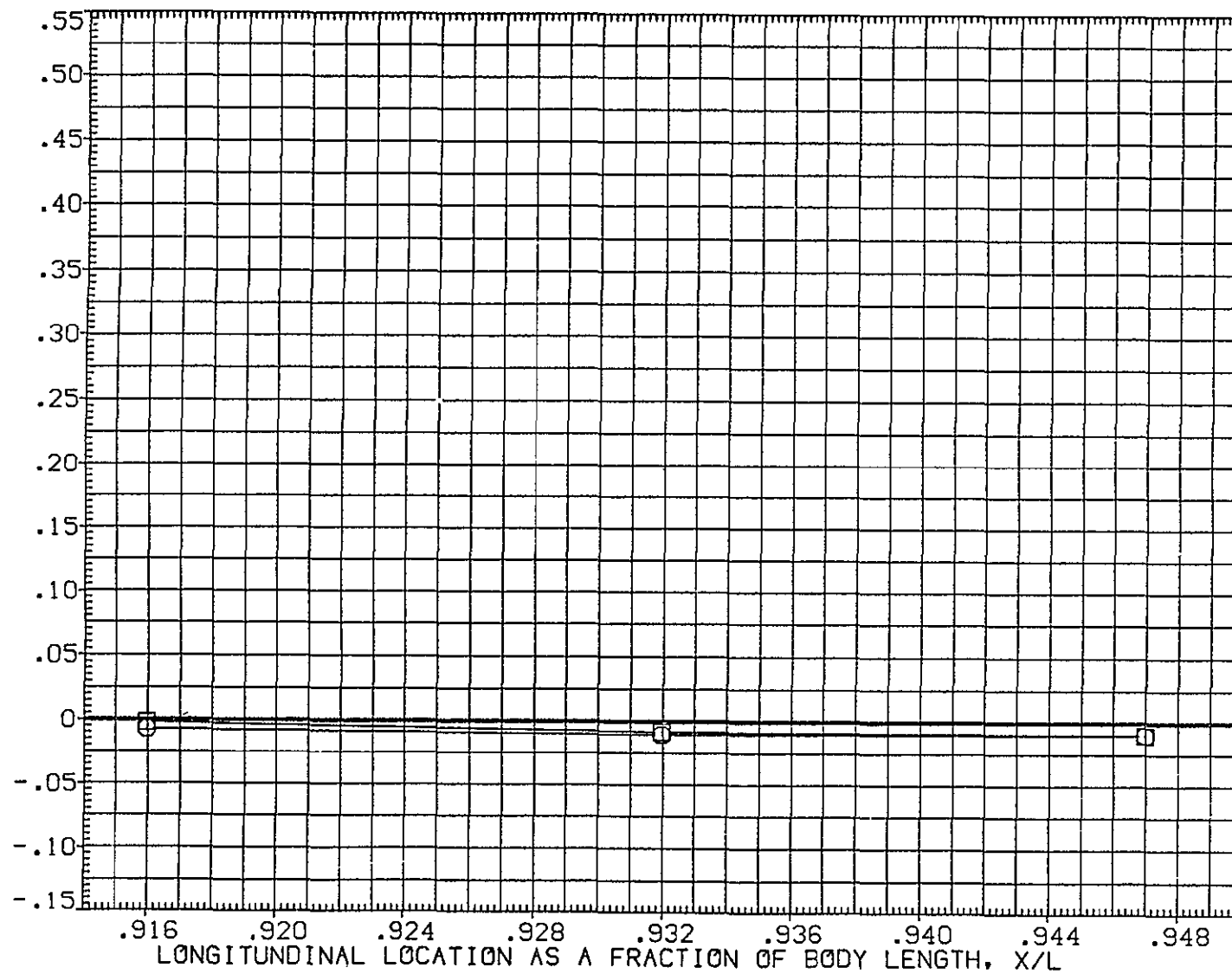


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(CEZK11)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.674
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

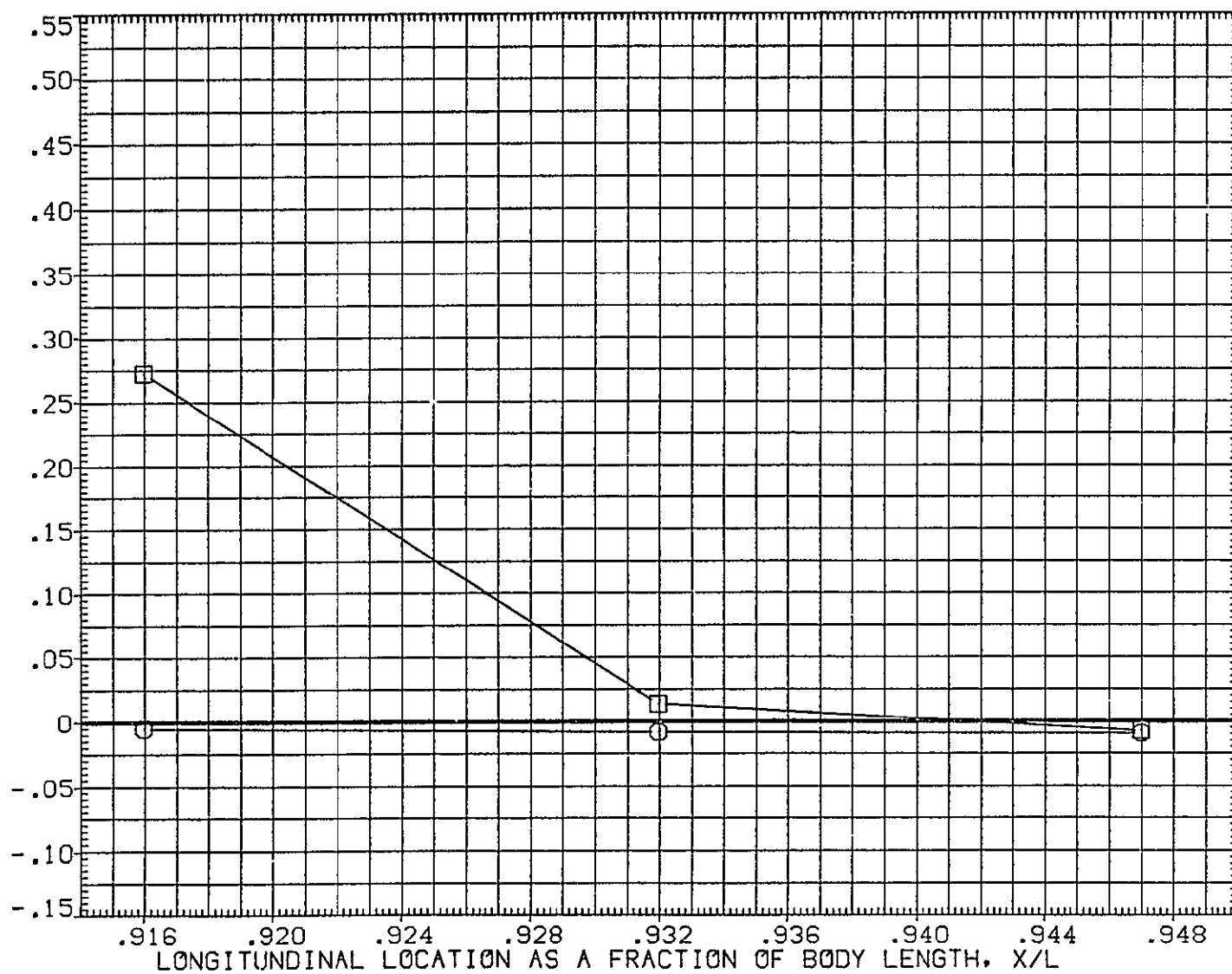


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	34.627
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

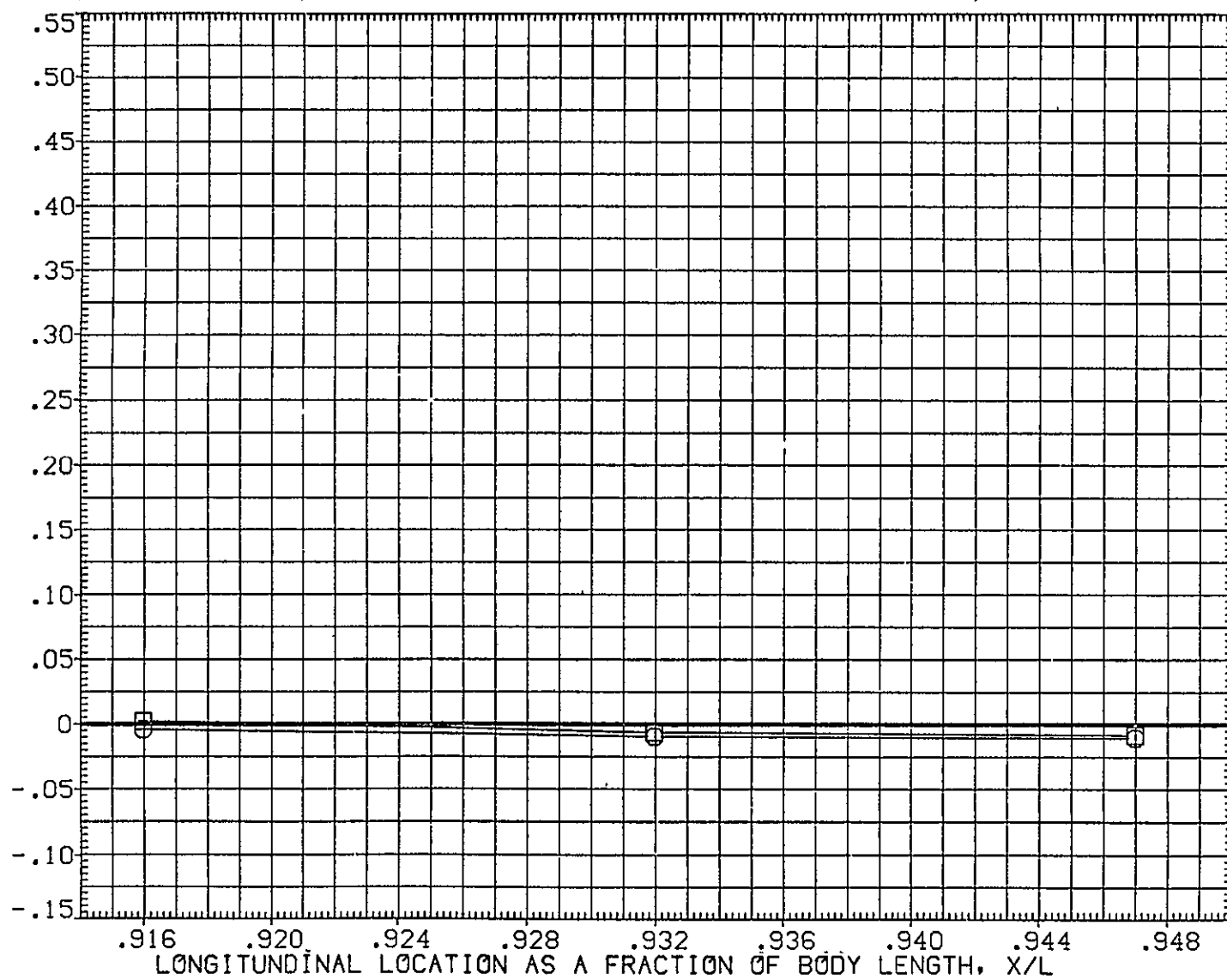


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	39.946
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

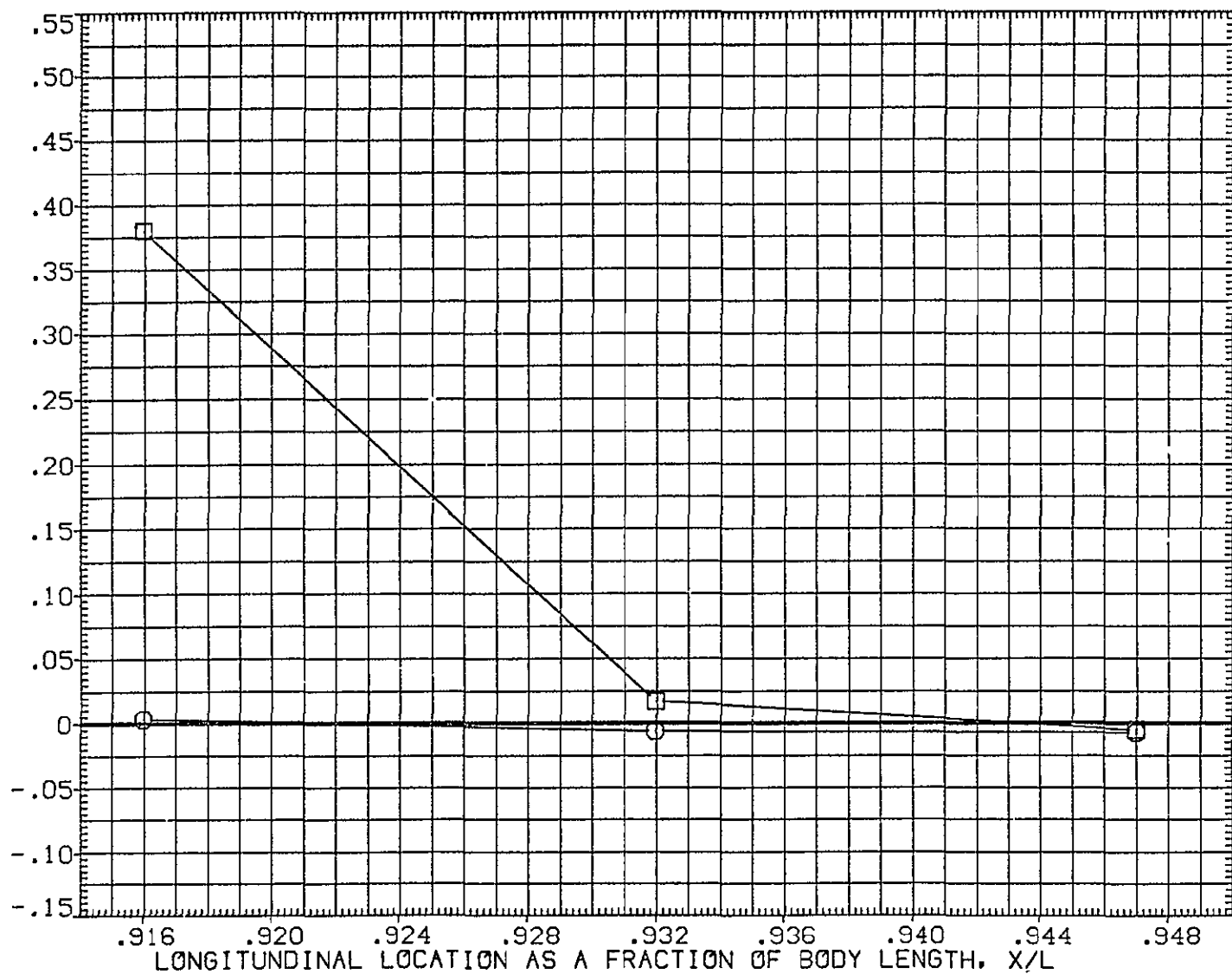


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	44.081
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

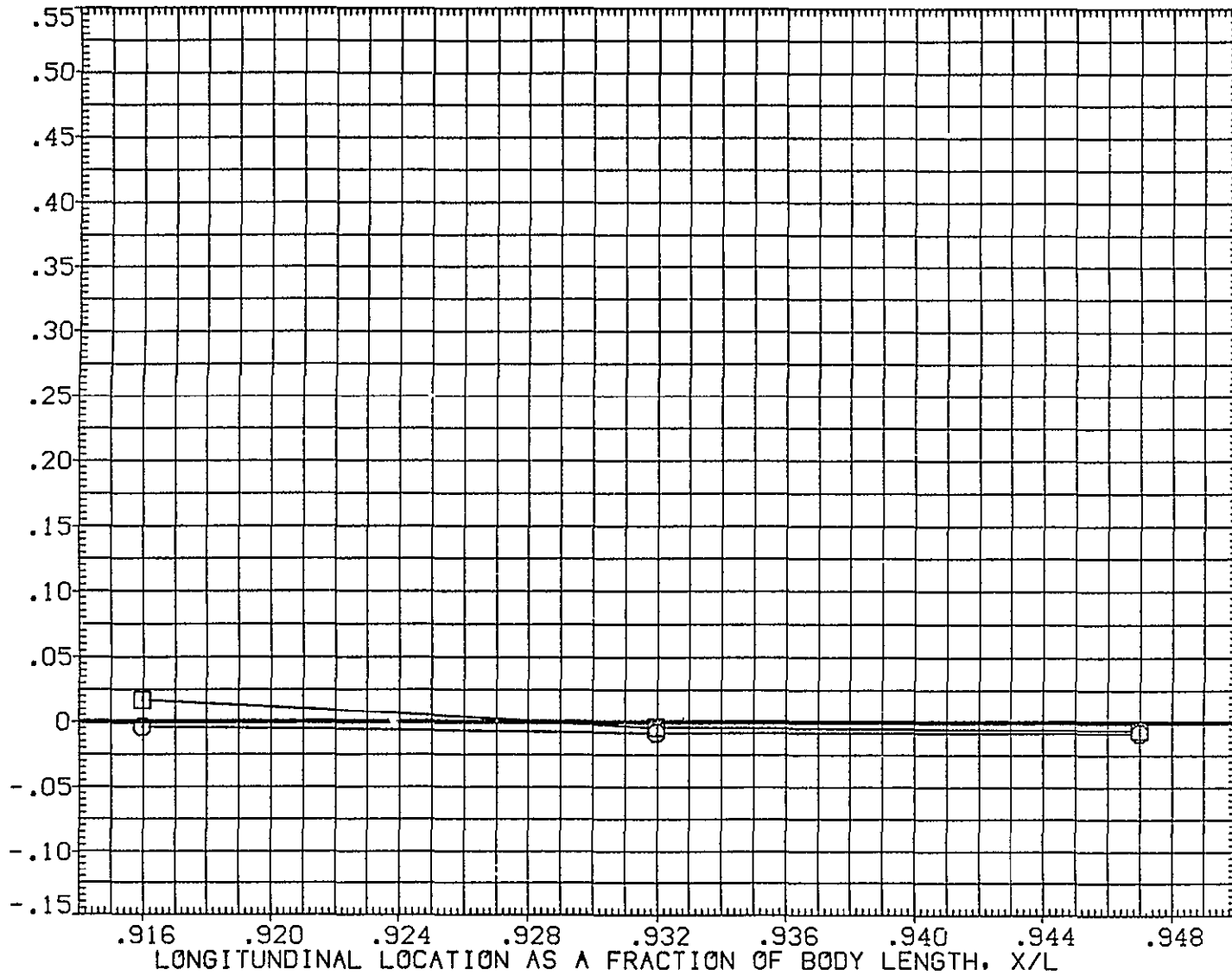


FIG. 13 AFT SIDEWALL



ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(CEZK11)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	48.676
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	10.000
ELEV-R	9.100	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

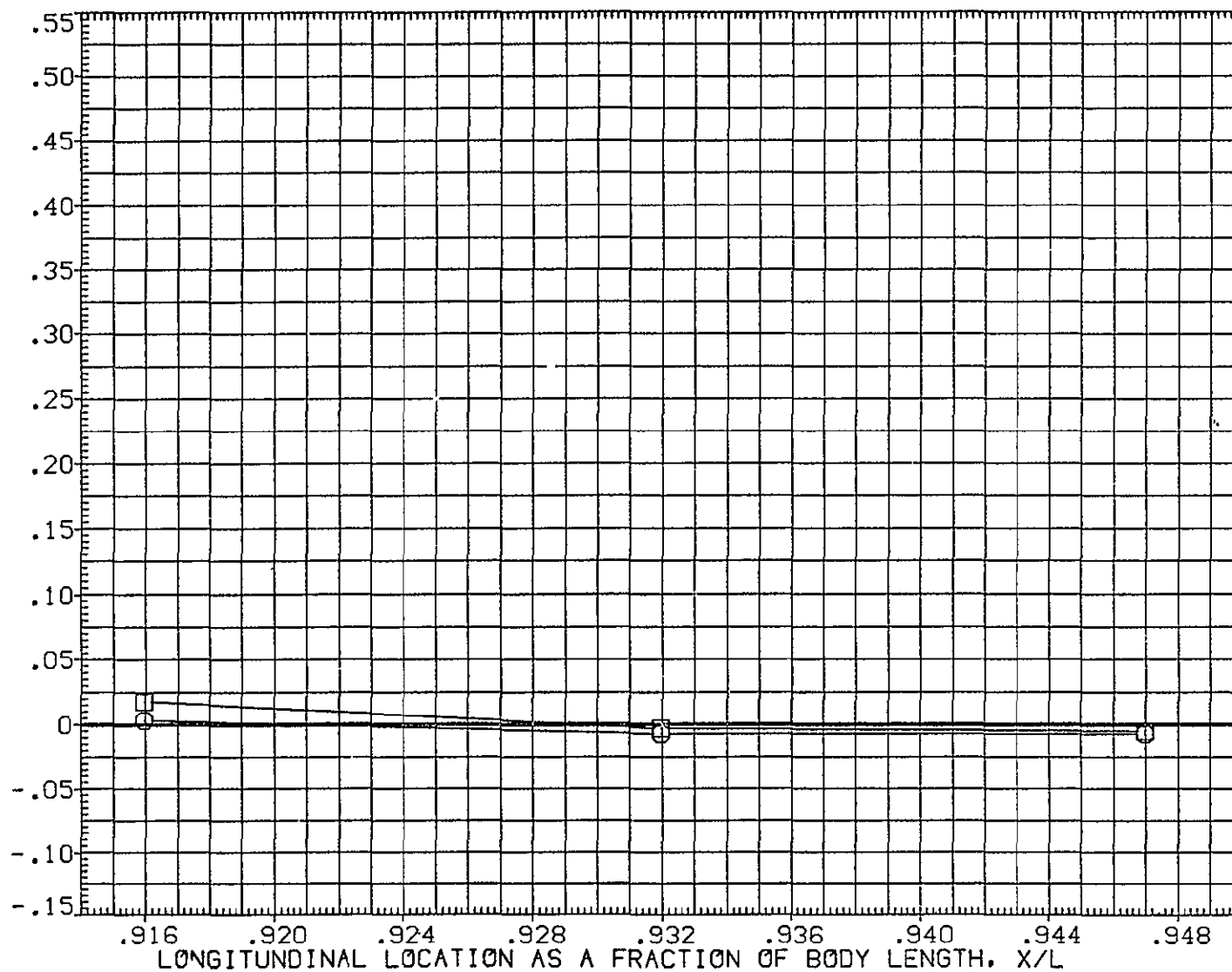


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	19.534
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

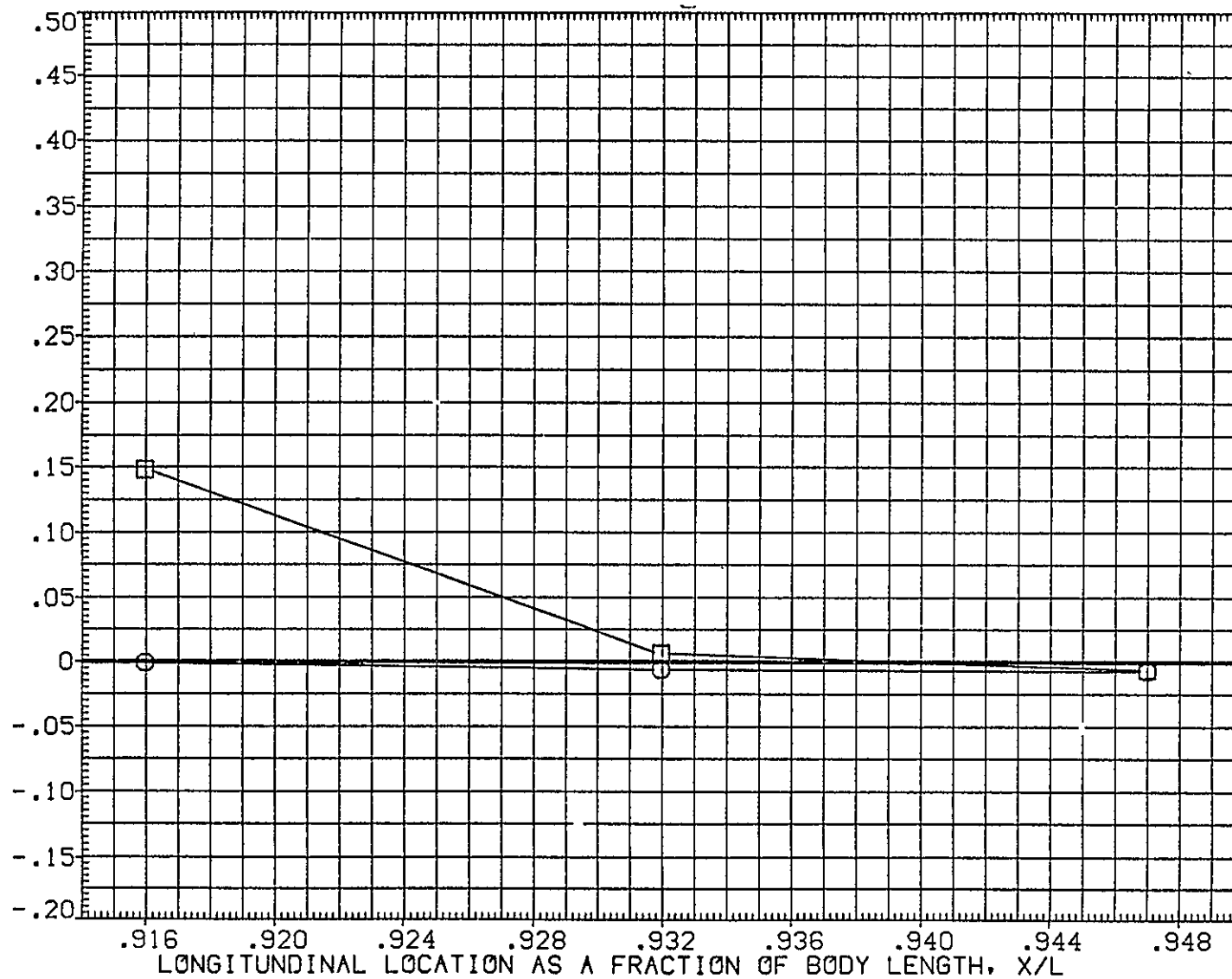


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(BEZK32)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	24.445
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

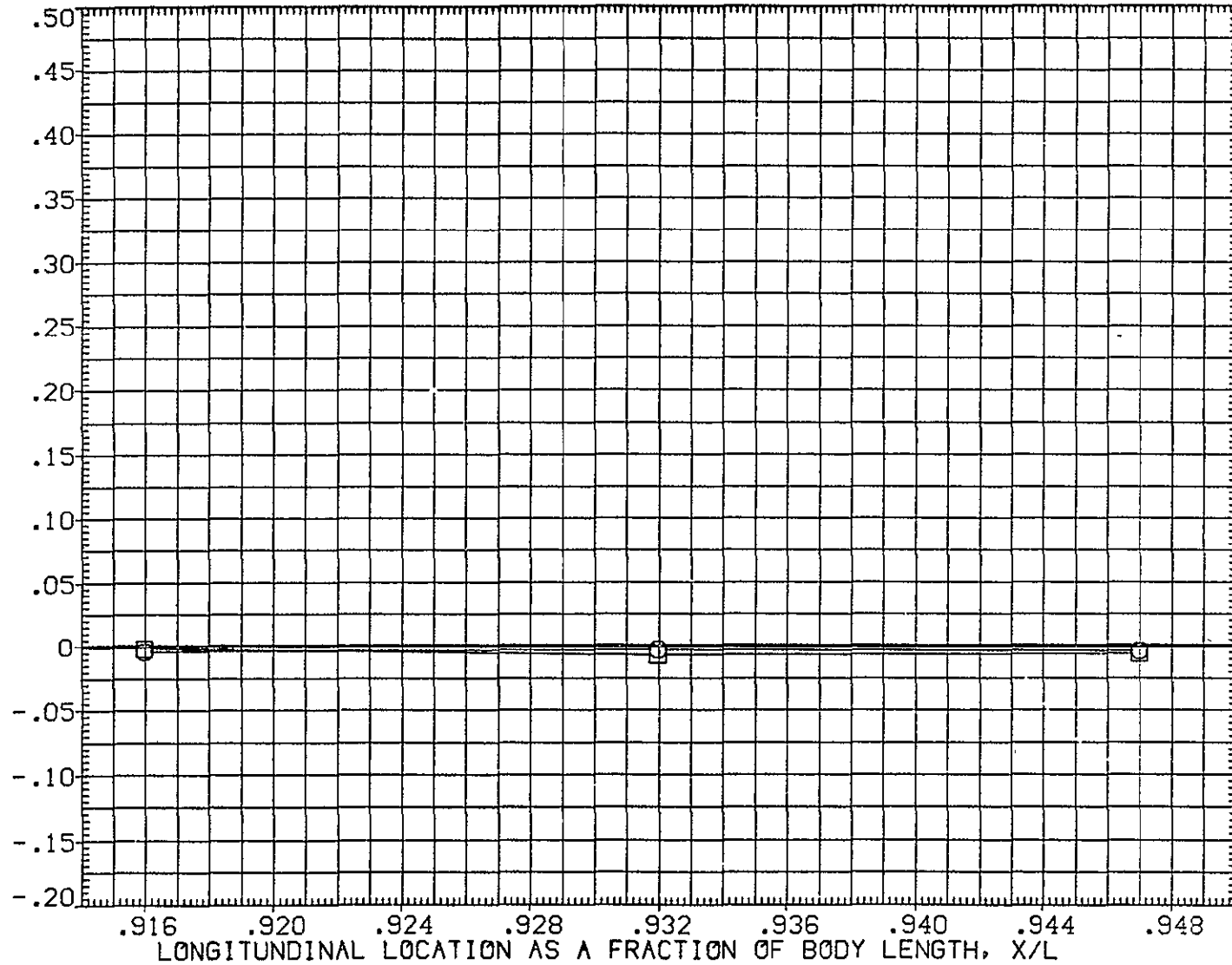


FIG. 13 AFT SIDEWALL

SYMBOL

Z0

MACH

ALPHA

□○

310.000

7.320

29.707

340.000

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

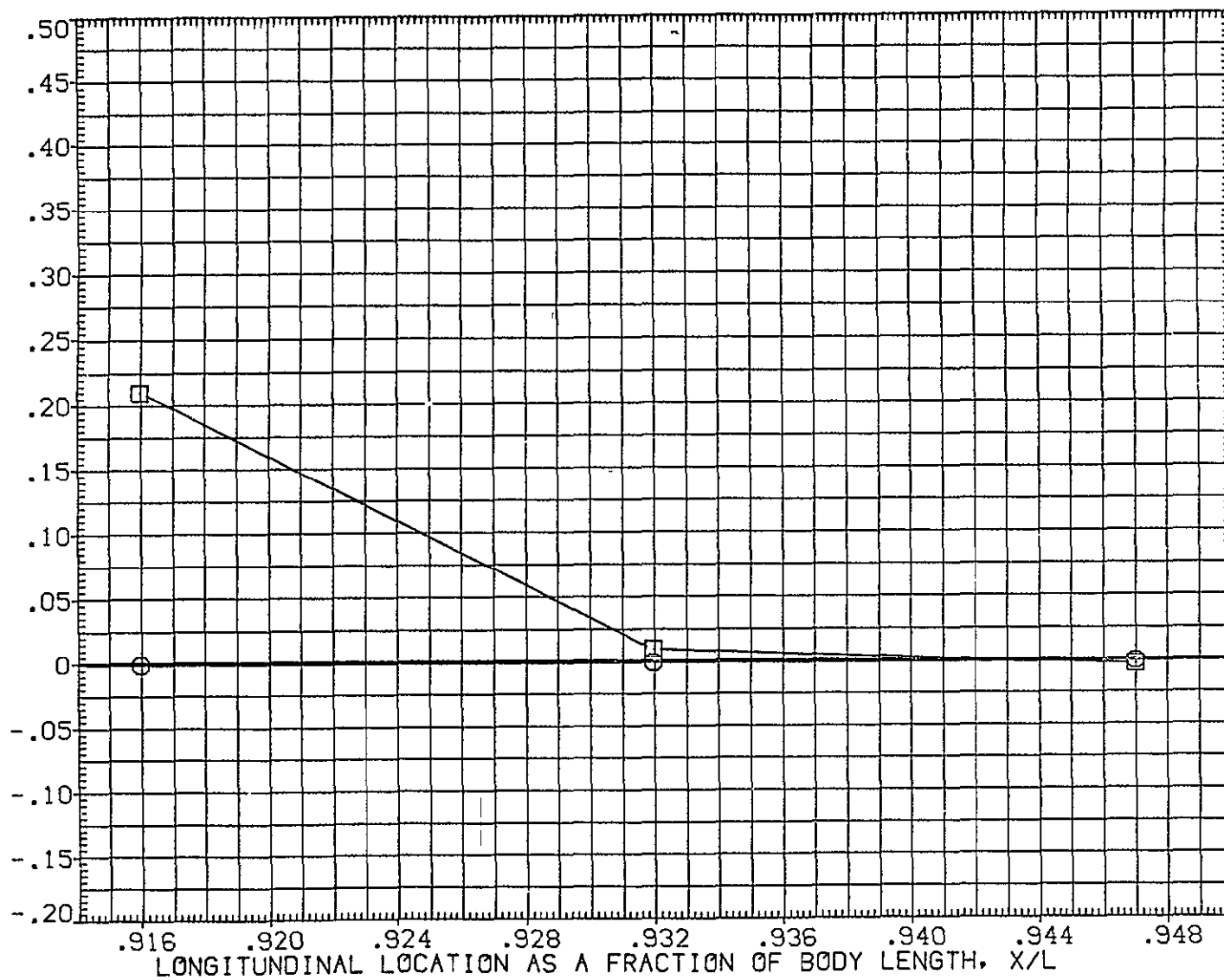


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(BEZK32)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	34.863
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

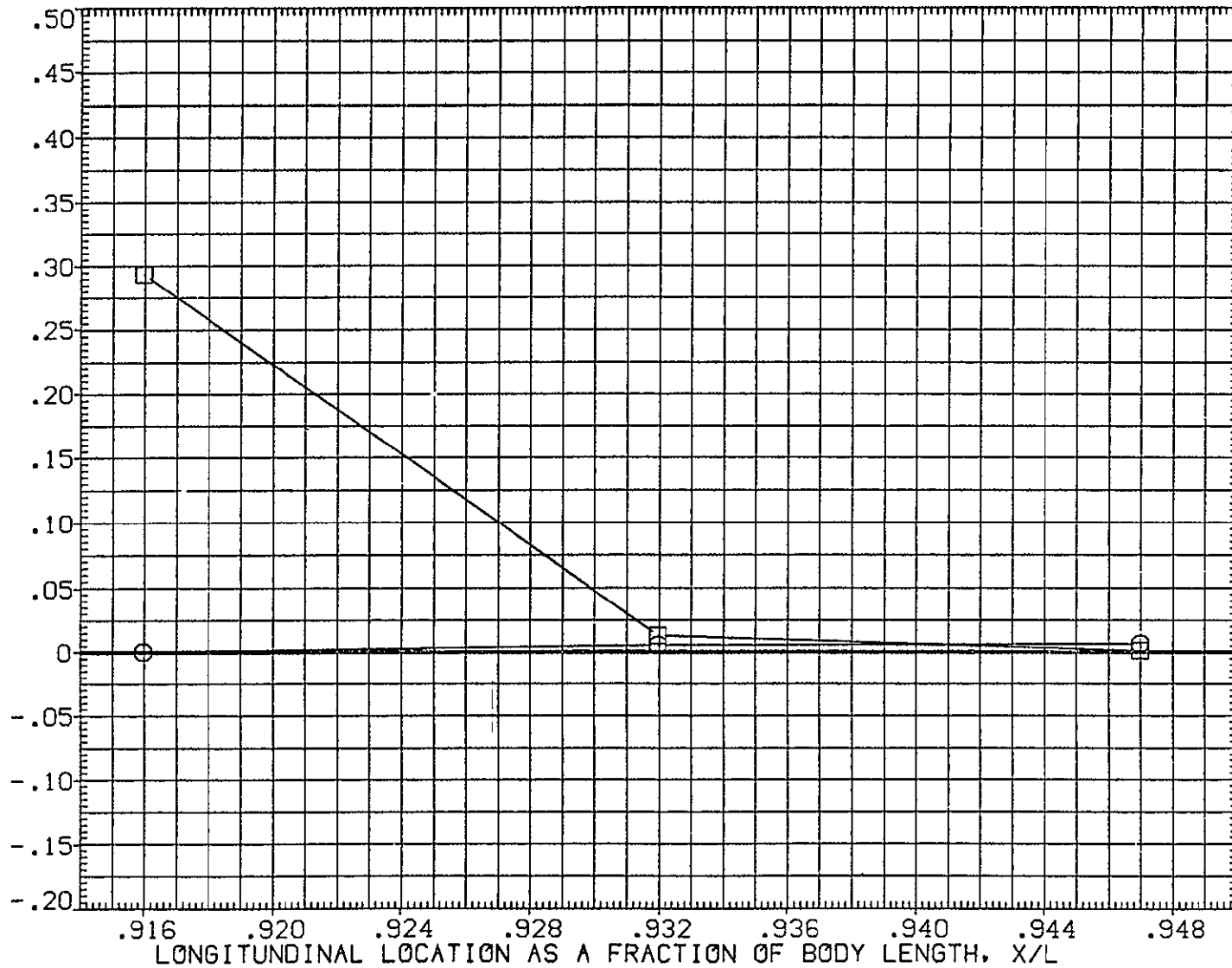


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	39.964
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

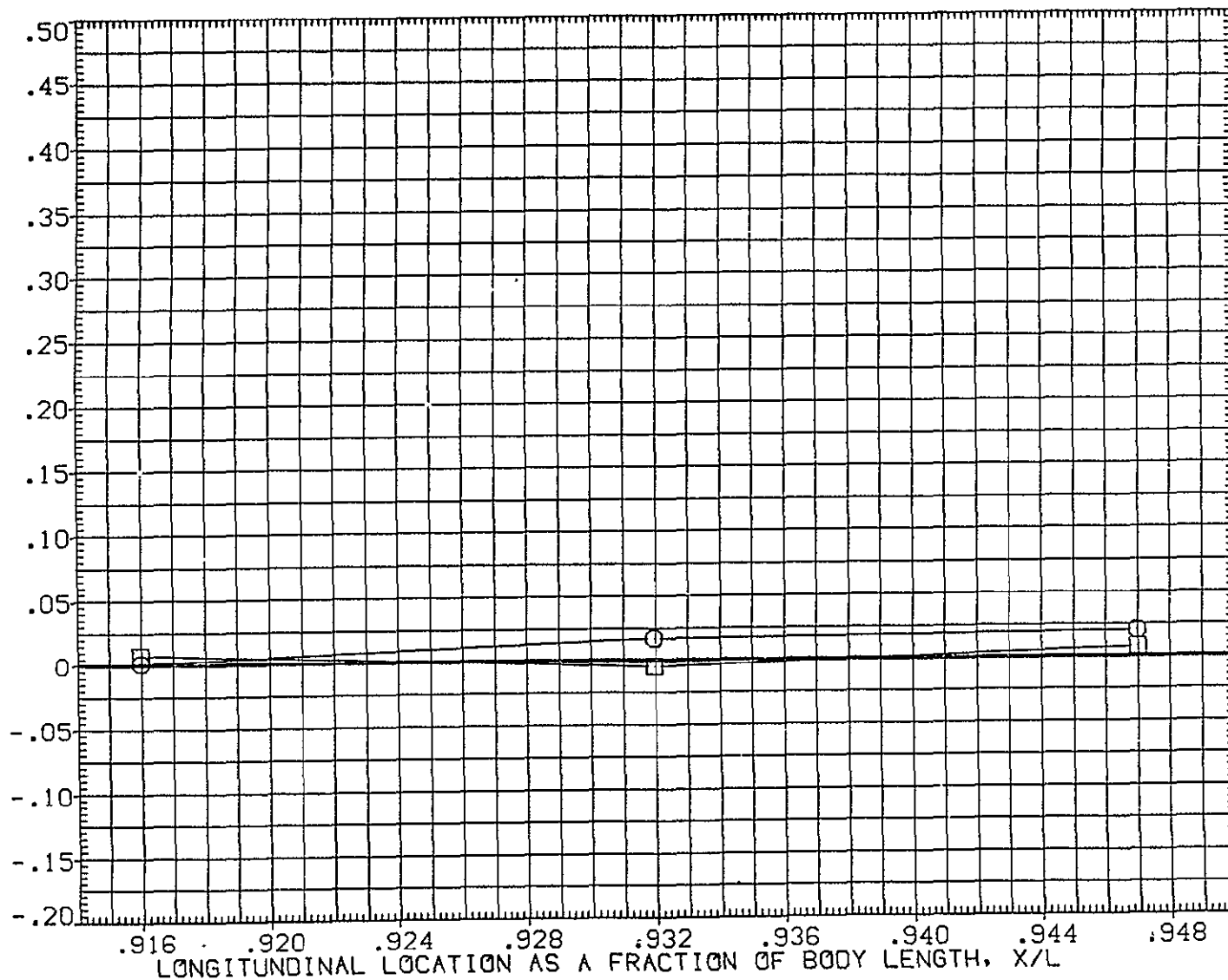


FIG. 13 AFT SIDEWALL

ARC 3.5-198 OH38 140C ORB AFT SIDEWALL

(BEZK32)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	44.152
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

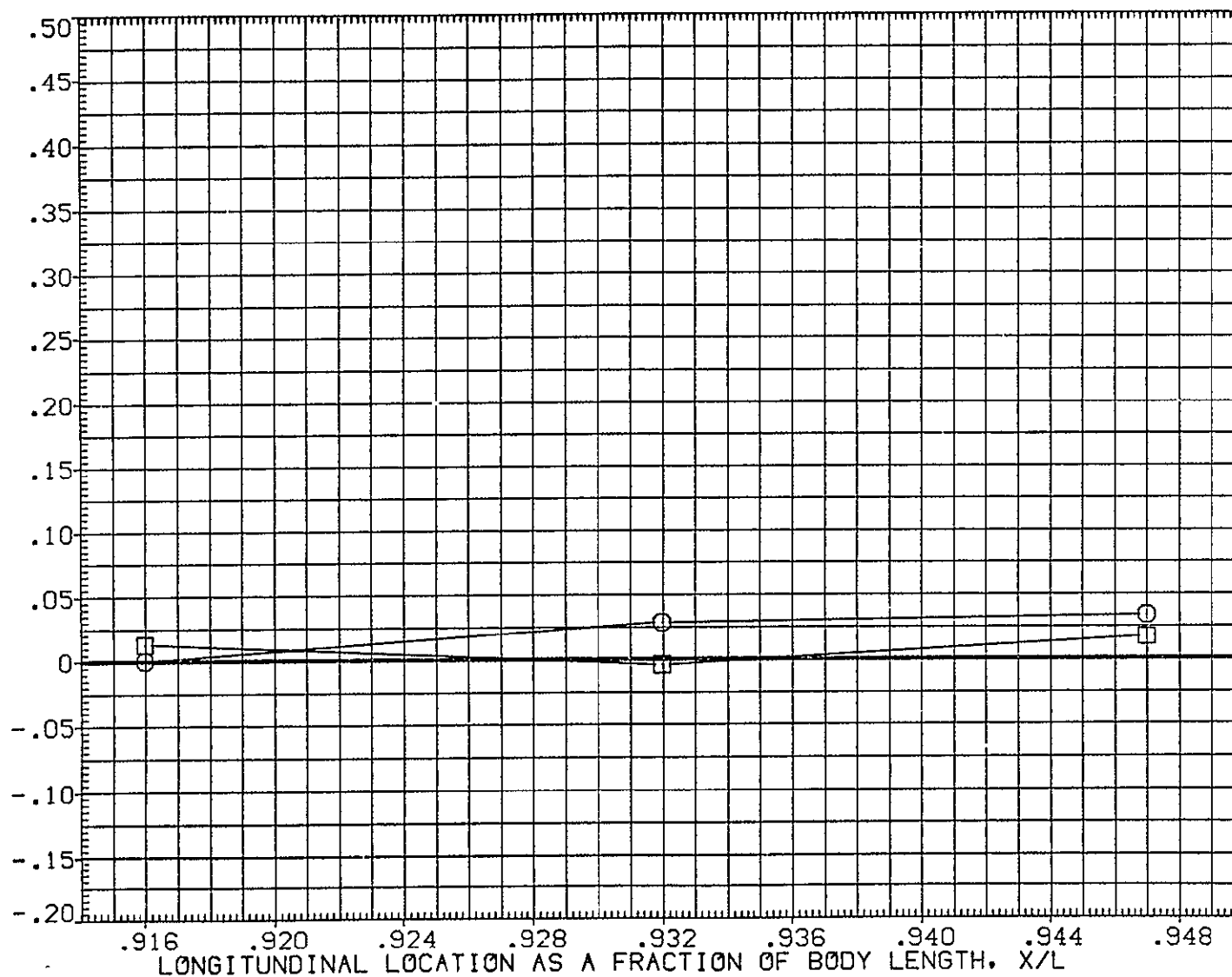


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	50.000
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	-40.117
ELEV-R	-39.717	SPDBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

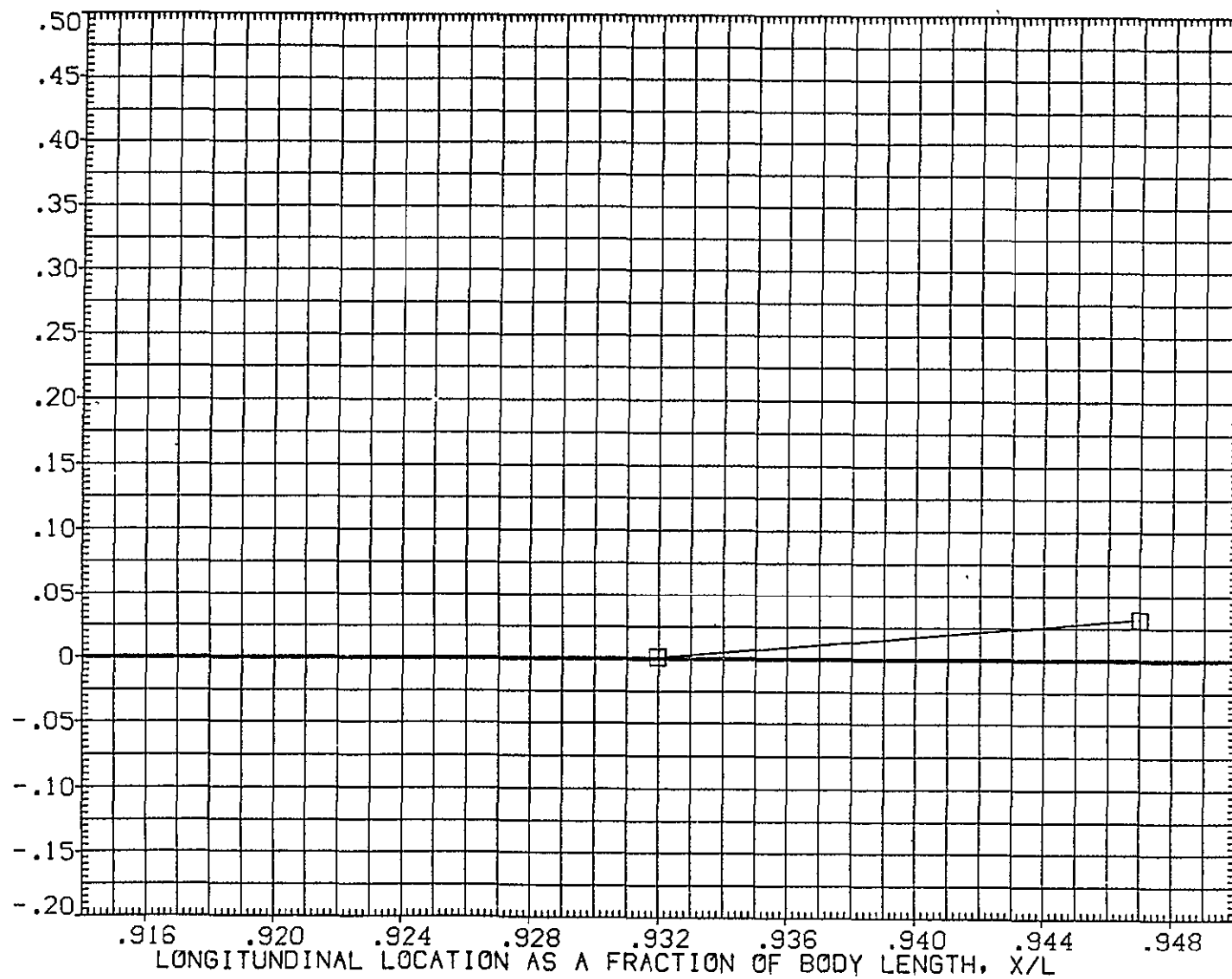


FIG. 13 AFT SIDEWALL



ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(BEZK16)

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	19.582
□	340.000		

PARAMETRIC VALUES			
BETA	-1.000	FLEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

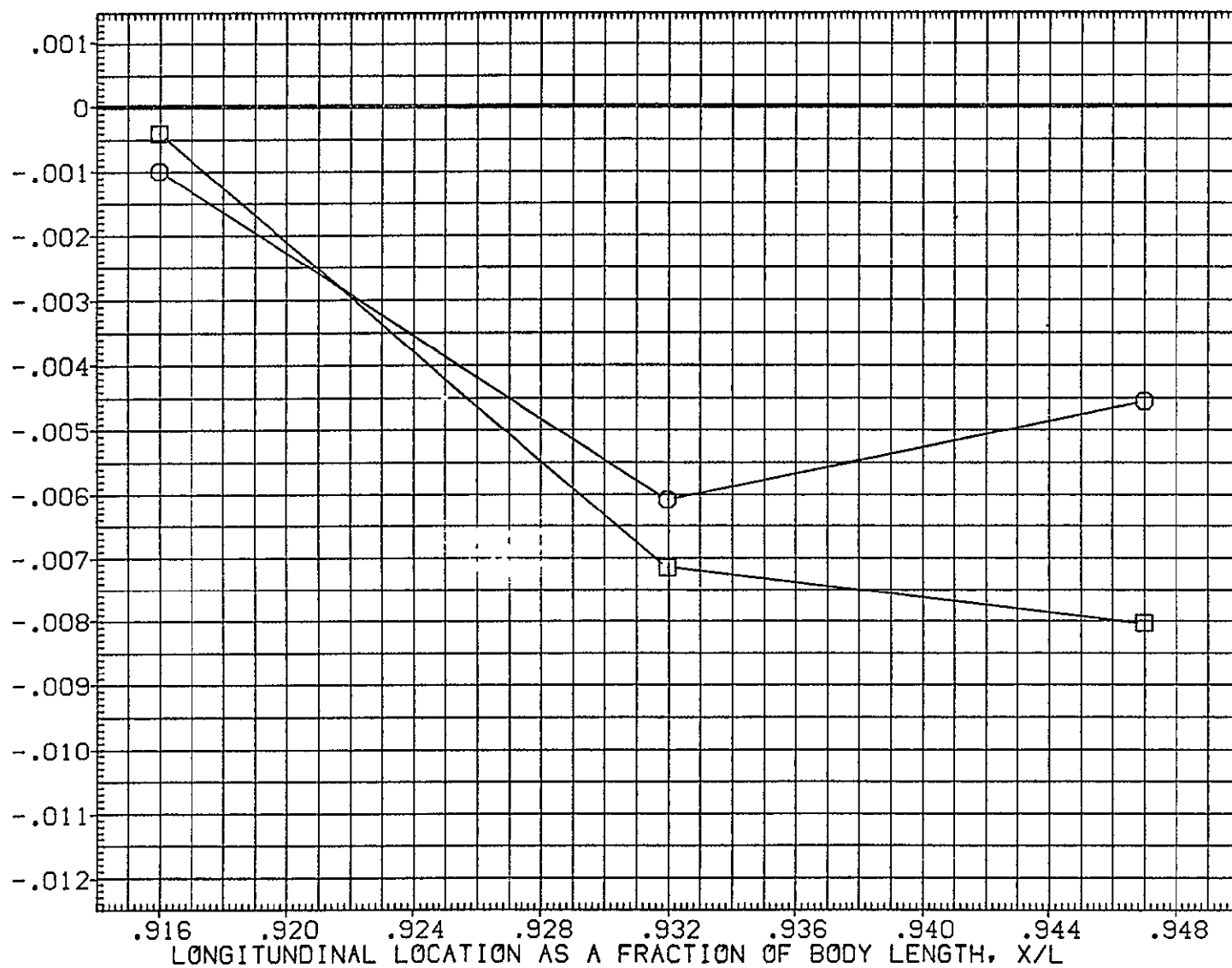


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	24.797
□	340.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

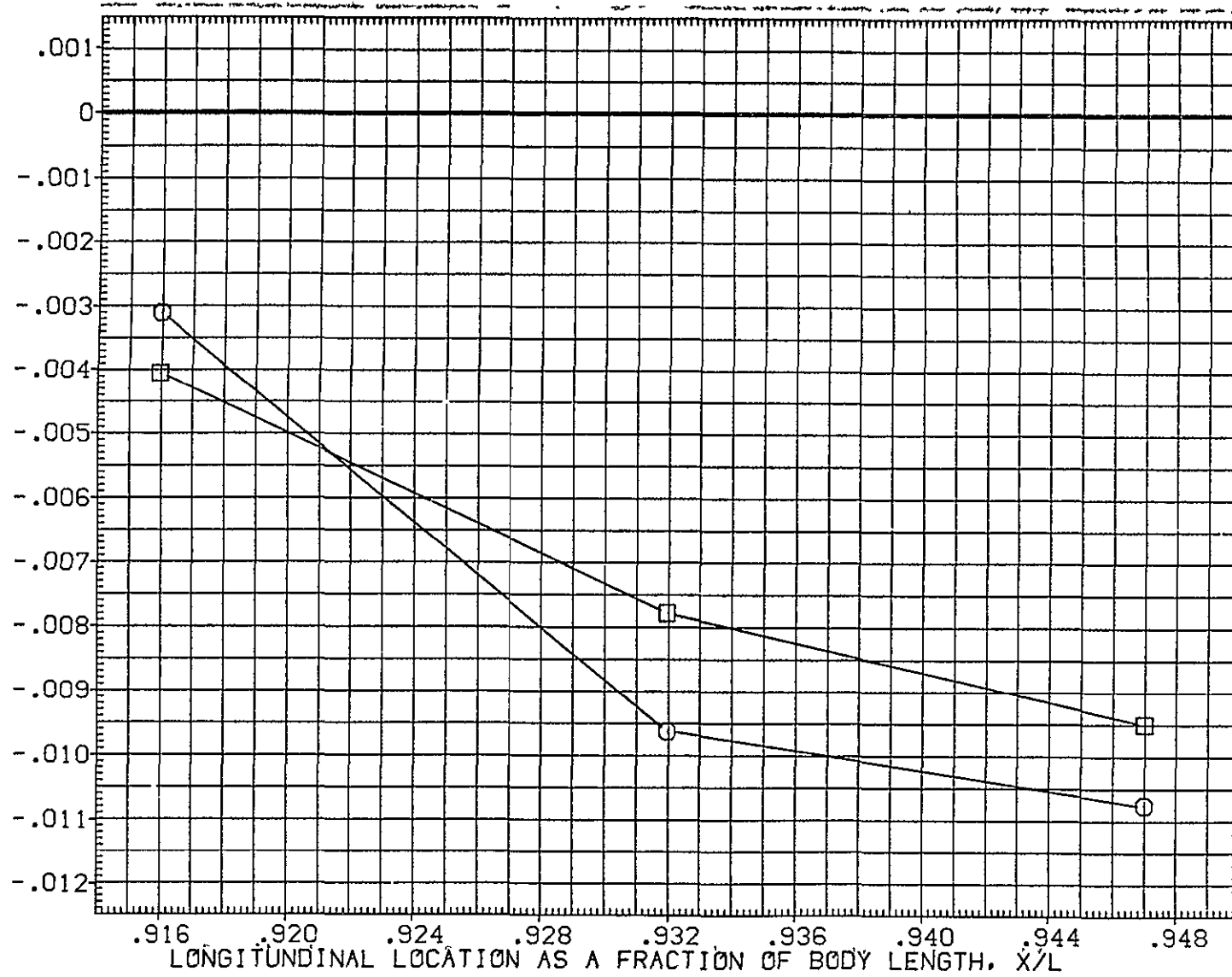


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	29.720
□	340.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BOFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

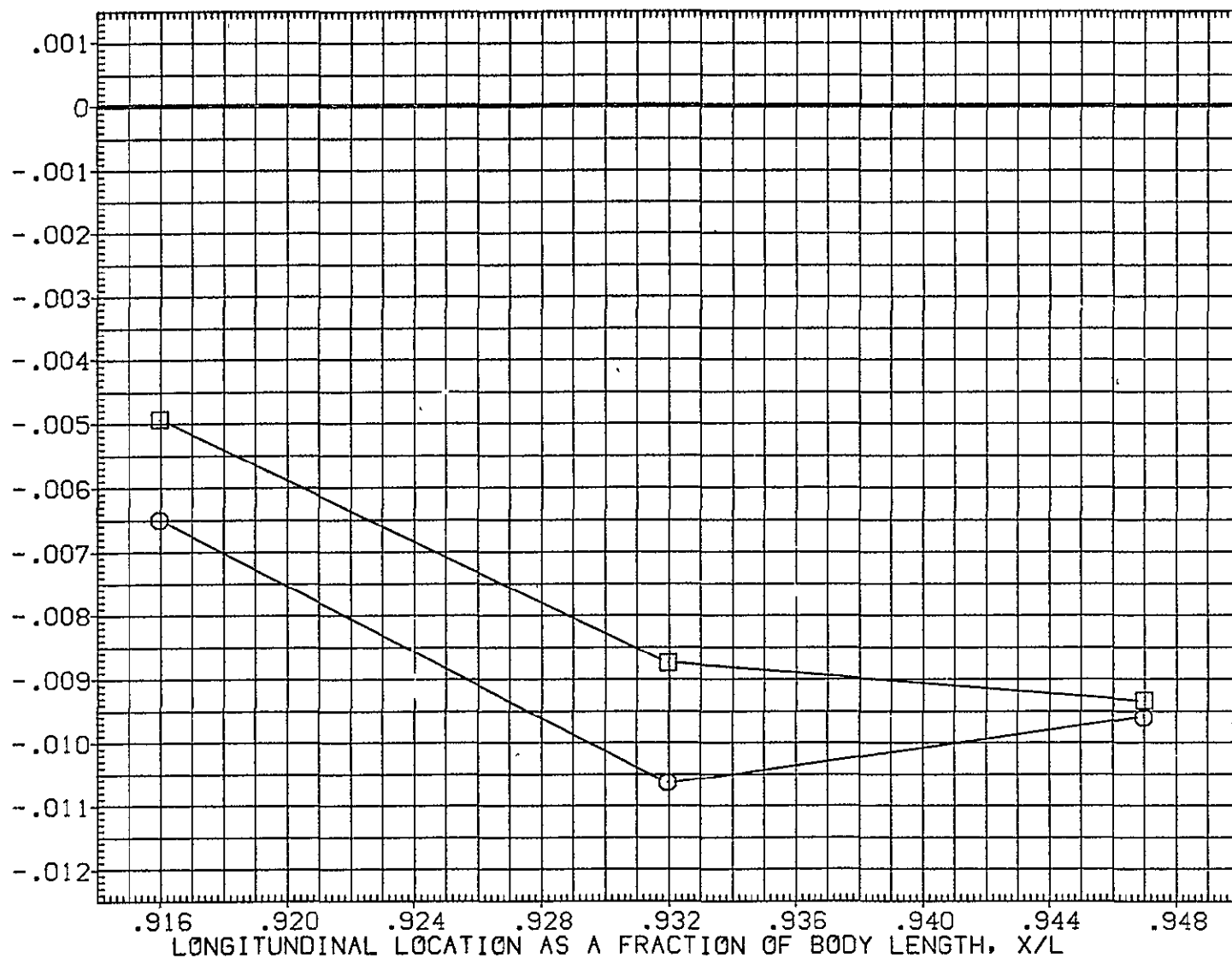


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	7.320	34.753
□	340.000		

PARAMETRIC VALUES			
BETA	-1.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	3.000

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

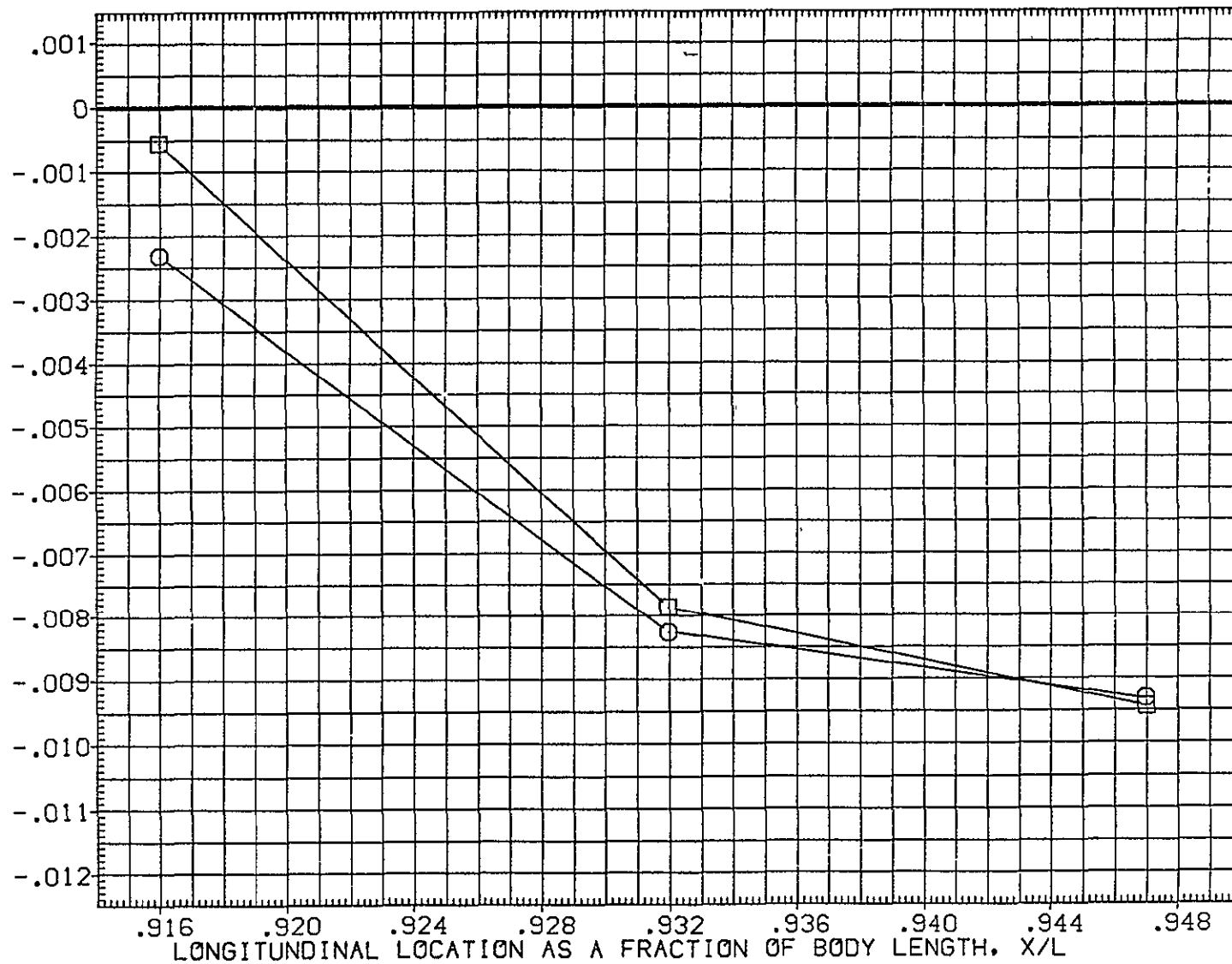


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	10.290	19.744
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPs

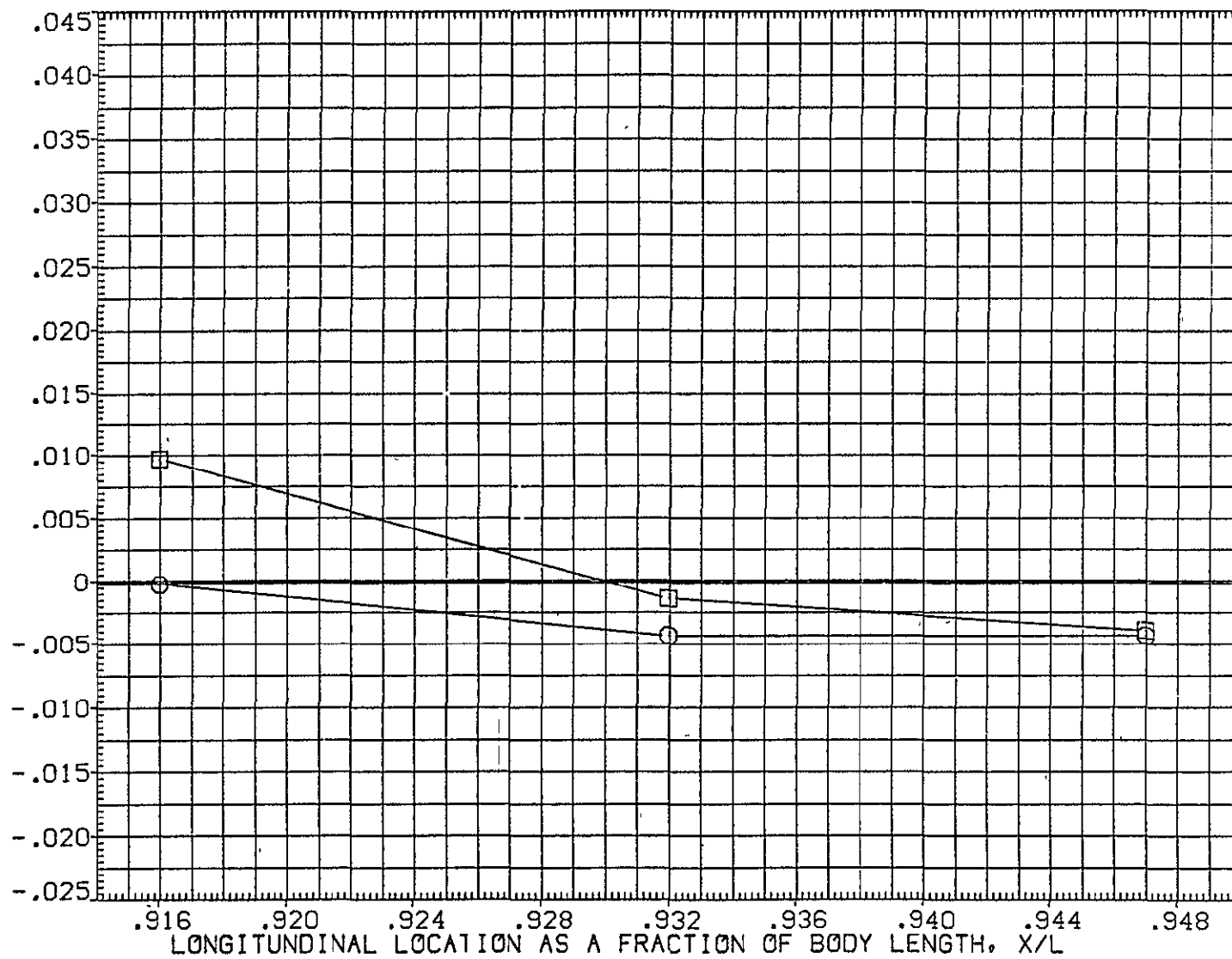


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	10.290	24.851
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

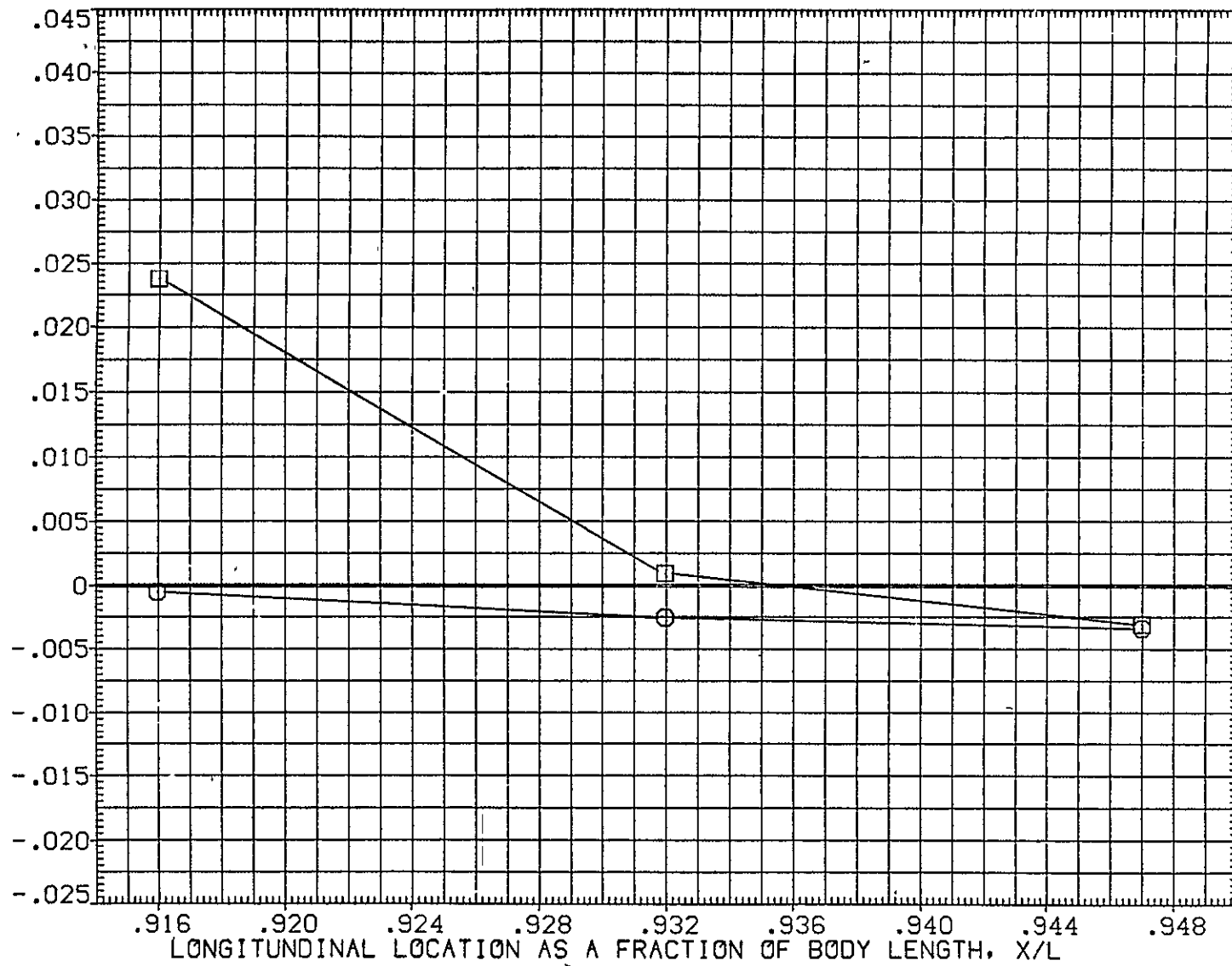


FIG. 13 AFT SIDEWALL

ARC 3.5-198 0H38 140C 0RB AFT SIDEWALL

(BEZK20)

SYMBOL	Z0	MACH	ALPHA
○	310.000	10.290	29.725
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPOBRK	.000
BOFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

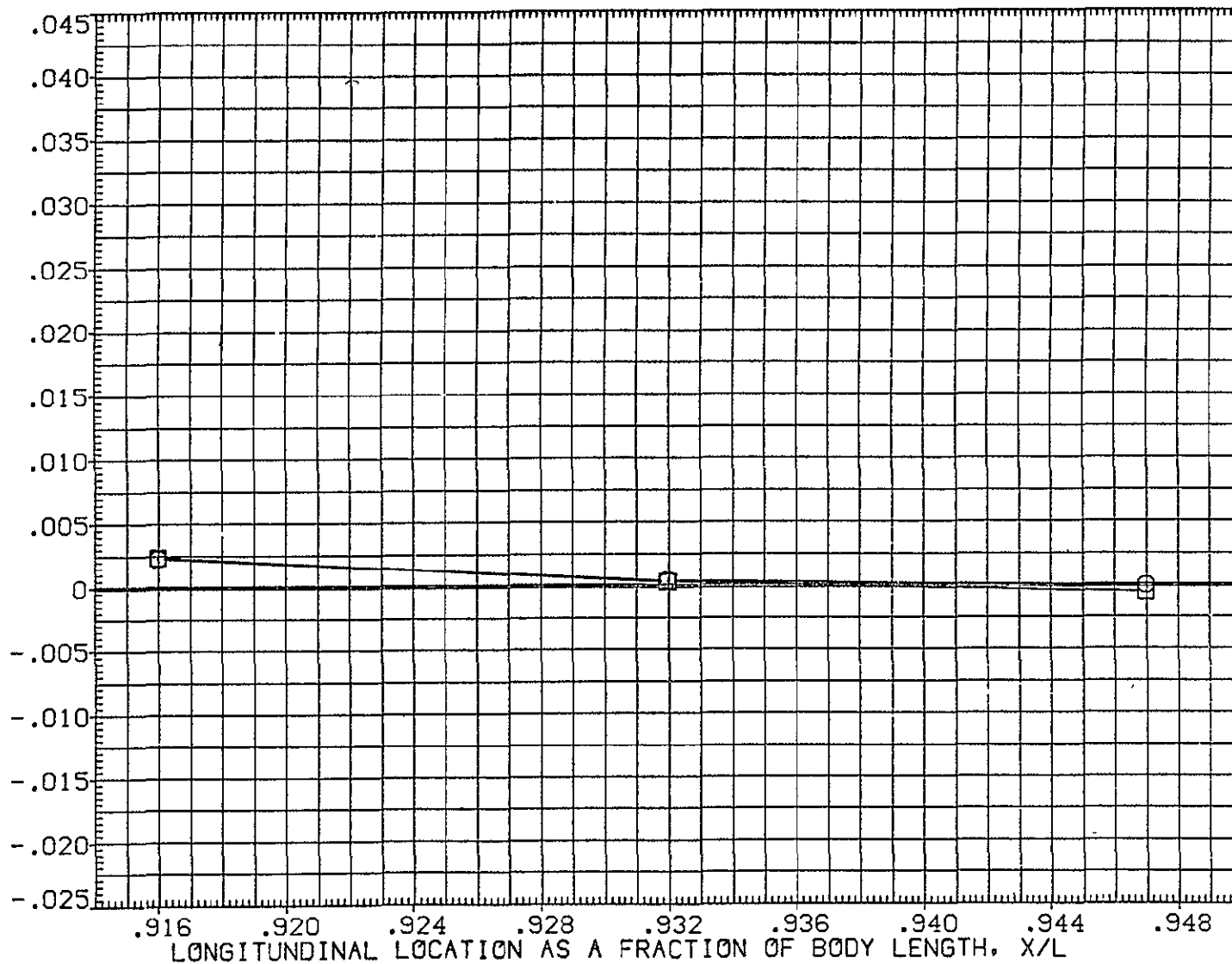


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	10.290	34.881
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

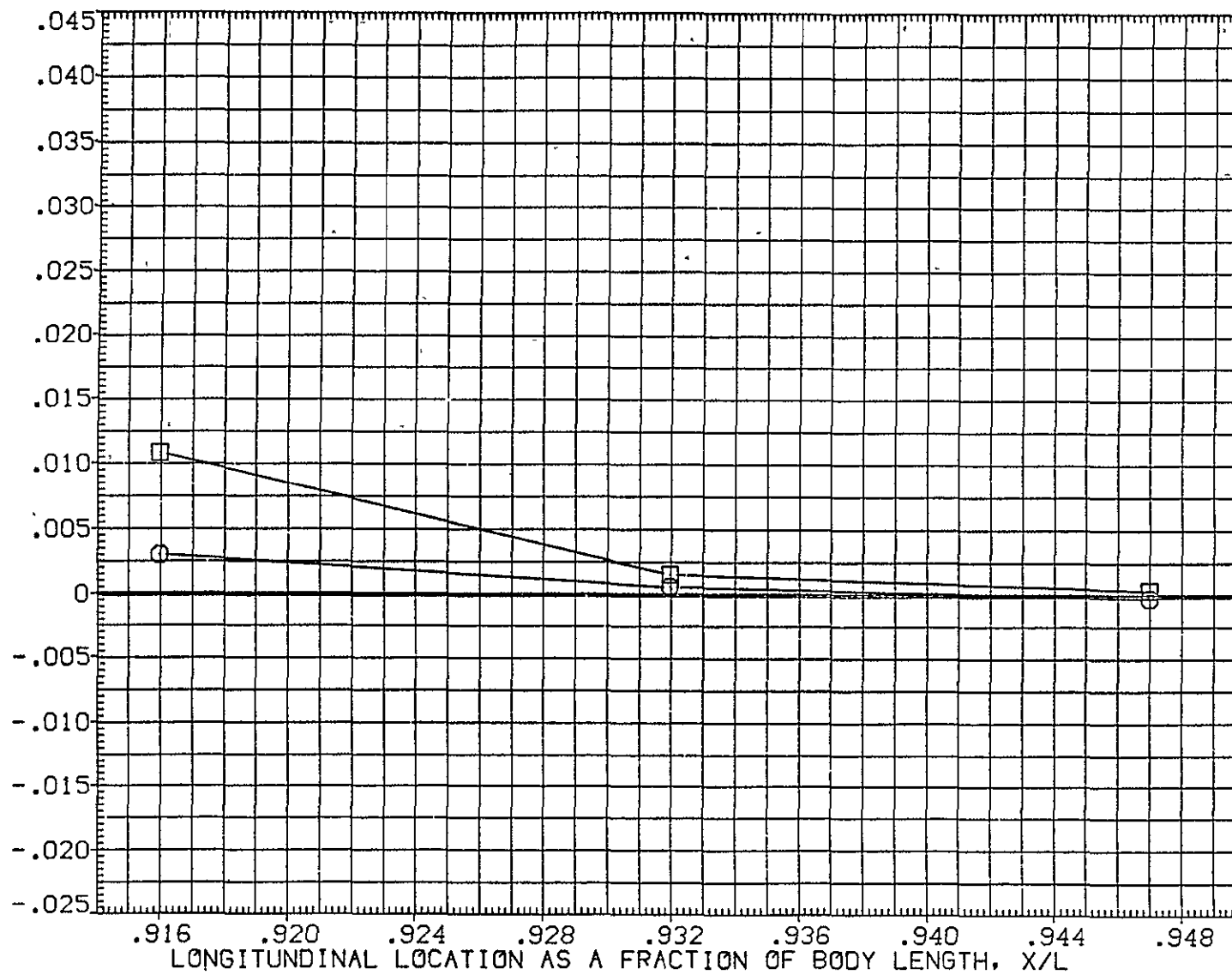


FIG. 13 AFT SIDEWALL



SYMBOL	Z0	MACH	ALPHA
○	310.000	10.290	39.932
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BOFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

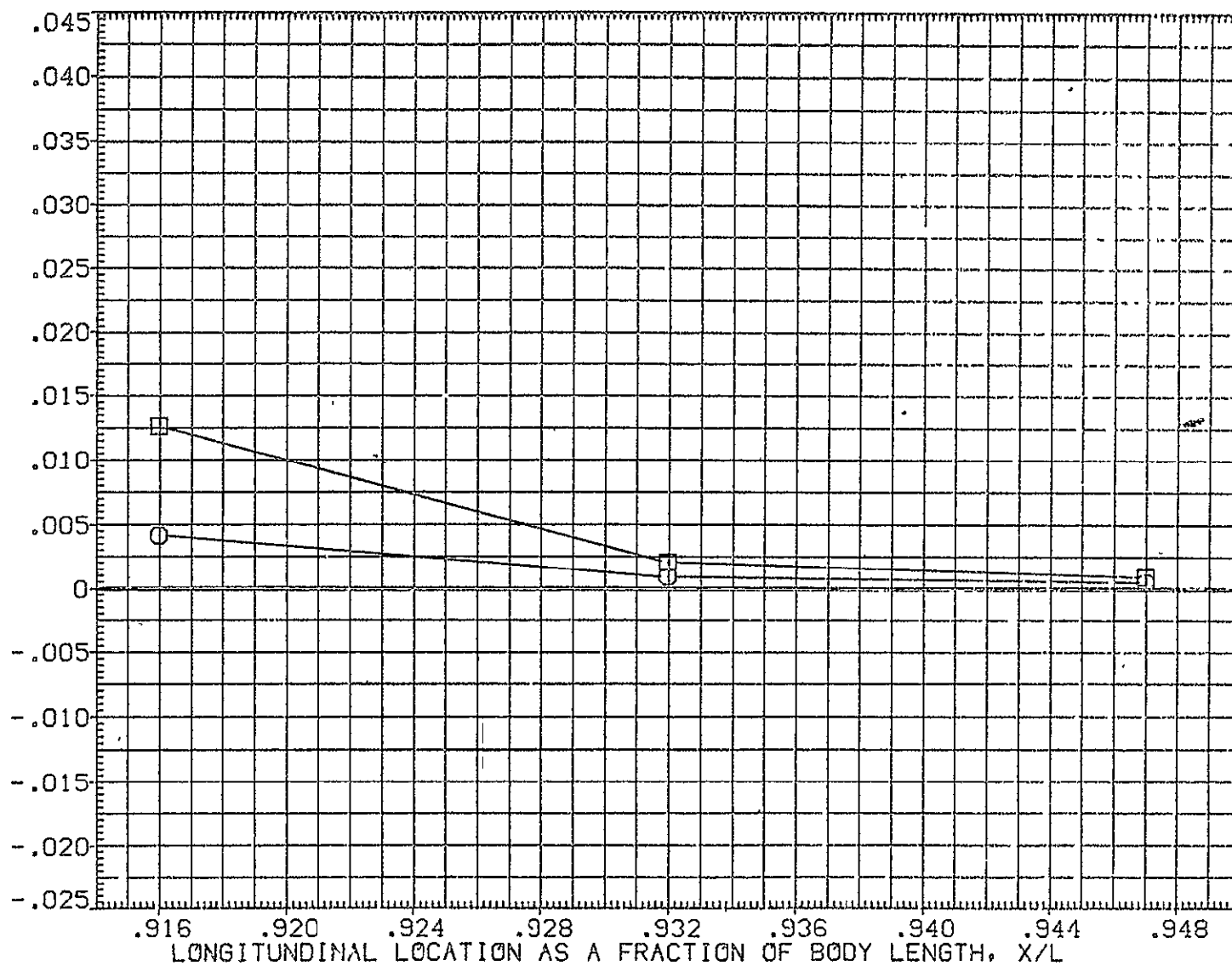


FIG. 13 AFT SIDEWALL

SYMBOL	Z0	MACH	ALPHA
○	310.000	10.290	44.136
□	340.000		

PARAMETRIC VALUES			
BETA	.000	ELEV-L	.117
ELEV-R	.000	SPDBRK	.000
BDFLAP	.000	RN/L	1.700

RATIO OF LOCAL PRESSURE COEFFICIENT TO STAGNATION CP, CP/CPS

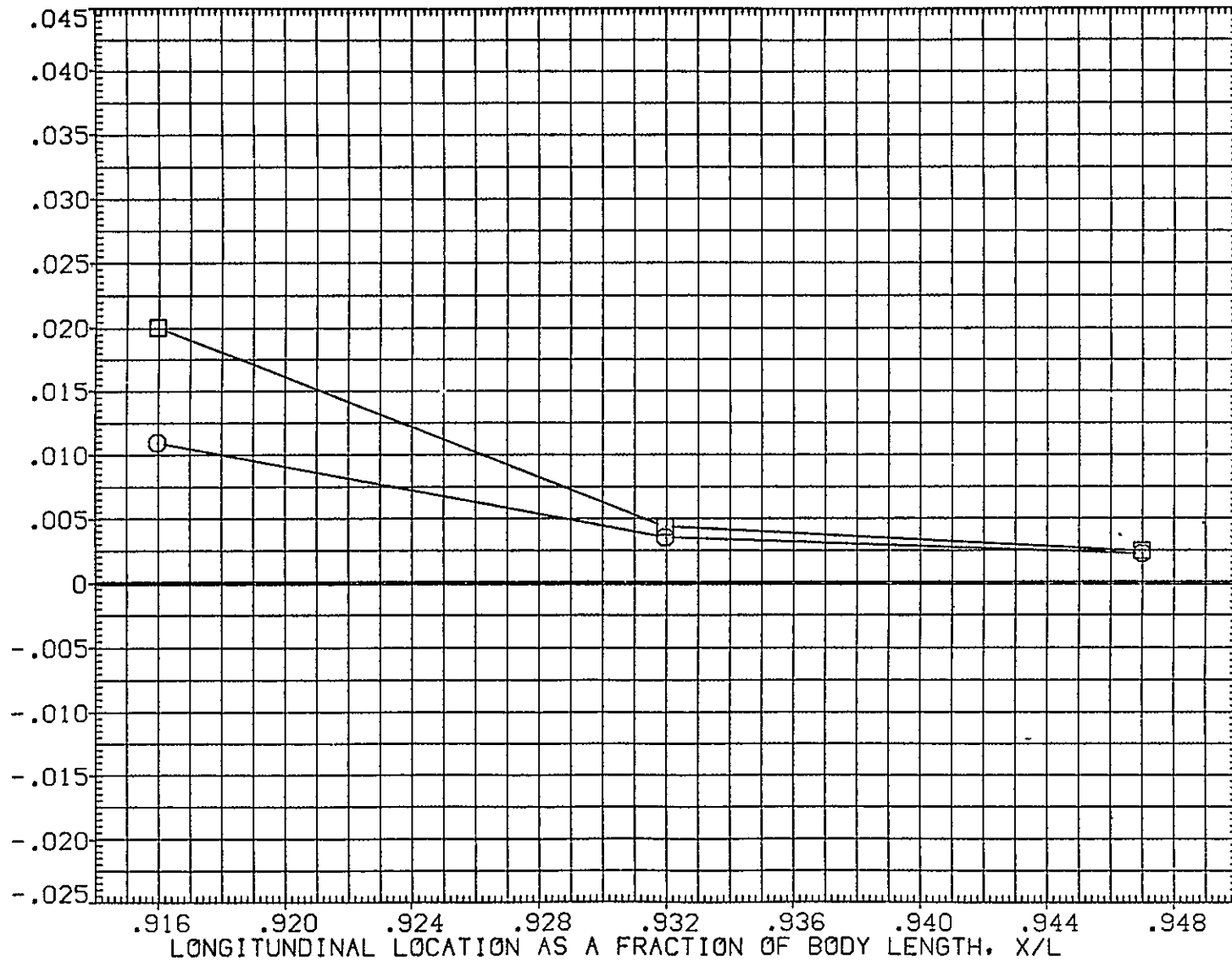


FIG. 13 AFT SIDEWALL